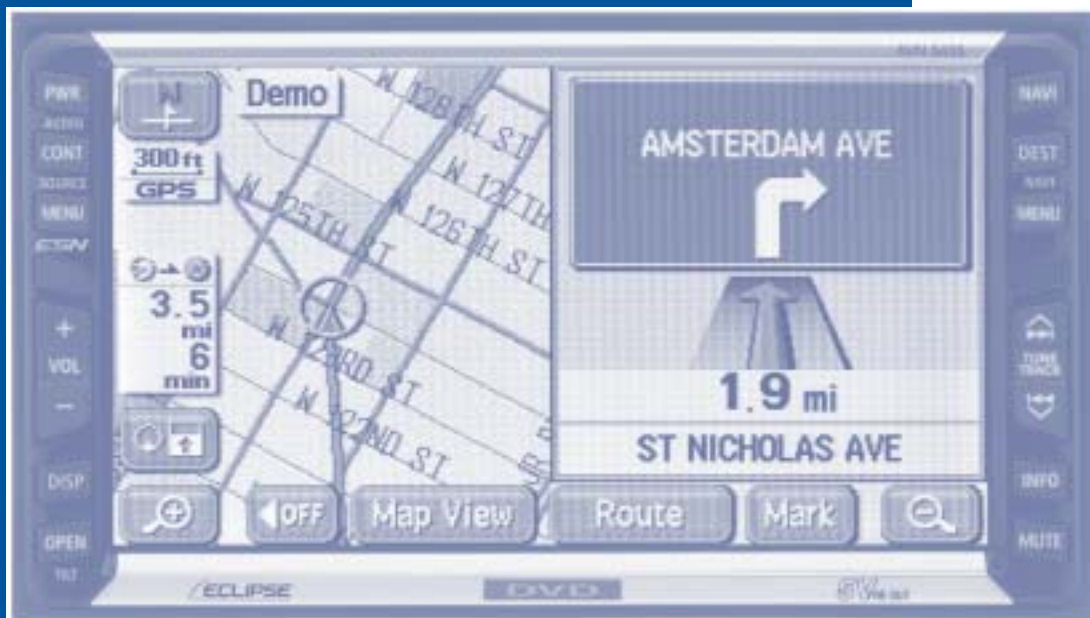




Audio



# AVN5435

ESN E5 6.5" Wide TFT Touch-Panel Display  
CD/DVD Multi-Source Receiver with DVD Navigation

We appreciate your purchase of this receiver.  
Please read through this manual for correct operation.  
We suggest that after reading it you keep this manual  
in a safe place for future reference.

Warnings and caution signs, illustrated below, are posted throughout this manual as well as on the AVN5435. They show safe and correct ways to handle the product so as to prevent personal injury to you and others and avoid damage to property. Before reading through the manual, take time to read through and learn the important information listed in this section.

## ***Cautions for use***

\* The illustrations of screens shown in this manual may differ from the actual screens of the product.



### **Warning**

This sign indicates a situation in which incorrect handling through disregard of a sign might result in death or serious personal injury.



### **Caution**

This sign indicates a situation in which incorrect handling through disregard of a sign might result in personal injury or may result solely in damage to property.

The symbol shown below indicates that you should know about the information in order to carefully follow it or you should remember the information for its helpfulness.



**A point it will be helpful to remember.  
Information you should know**

- Please read all materials such as manuals and warranties that have come with the product.  
Fujitsu Ten will not be responsible for unsatisfactory product performance due to failure to follow these instructions.
- Changes to product specifications may result in differences between content of the manual and features of the product.

Please use care in handling the manual.

Forcefully spreading or pulling on pages may result in their falling out of the binding.

Use the manual carefully.

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The Index by Topic simplifies searches for explanations about individual features. When confused by an operation, use the Index by Topic to search for information about the operation.

# MEMO



# How to use this manual

## Item title

A number and title is assigned for each item.

## Operation title

A title is assigned for each operation purpose.

## Operation screen

A screen showing the operation will appear.

## Detailed operation title

A title is assigned for each detailed operation purpose.

## Operation procedure

Describes the operation.  
Proceed with the operation as per the numerical order.

## Section title

A title is assigned for each section.

● basic operation

## Adjusting sound quality

### Setting DSP (acoustics)

The DSP function reproduces the sensation of various factory set performance environments by adding reverberation to the music being played.

#### DSP mode setting

- 1 Touching the DSP touch switch brings up the acoustics mode screen as shown.

- After making settings, touch **BACK**. The acoustics mode adjustments will be saved and the system will return to the previous operation screen.



Touch switch	DSP Environment	Touch switch	DSP Environment
<b>CONCERT</b>	Concert hall	<b>CLUB</b>	Disco, Club
<b>LIVE</b>	Live performance arena	<b>THEATER</b>	Movie theater
<b>CATHEDRAL</b>	Church with echo	<b>OFF</b>	DSP OFF

#### Adjusting, saving DSP (acoustics)

The factory set DSP (acoustics) level for each mode can be adjusted to preference and saved.

- 1 Touch **▲** or **▼** at the right of the screen while in the acoustics mode to be adjusted.

- There are five + side and five - side adjustment levels available.



- 2 Touch the switch for the acoustics mode that has been adjusted until a beep is heard.

**Resetting DSP (acoustics) levels**

Default settings for the currently adjusted and saved DSP (acoustics) level can be reset.

**1** Touch **OFF** until a beep is heard.

- The acoustics level will be returned to default value.



- Only **THEATER** has a default value of +5, in order to increase the sound effects of products such as DVD videos.
- When adjusting the level for the currently selected DSP (acoustics) mode, the level will not be saved for other acoustics modes.

Basic operation

**Section side heading**

Only the section side heading will appear.

**Attention**

Additional points regarding the operations are given here.

# Features

## DVD player with sharp video and dynamic sound (Page 66)

Plays DVD Video recorded with high quality images and sound.

(DVD media is able to record a movie with high quality video and digital sound that exceeds the quality of CD media.)



## MP3 player for music discs having 1/10 compression (Page 52)

Plays CD-R (recordable) discs that have been compiled in MP3 format. (MP3 is a format that enables recording of the songs of several albums onto a single CD-R.)



## DSP effects for simulating acoustics of various performance environments (Page 24)

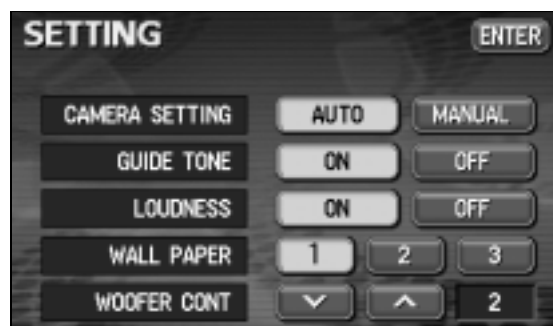
Provides ability to simulate the sensation of various performance environments for matching to the genre and source of a song.



## Selection and display of favorite wallpaper (screen backgrounds) (Page 32)

Wallpaper of your choice can be switched and displayed for use as the background of the information screen and audio playback screens.

The screen from a navigation unit can also be linked and selected.



- Setting wallpaper for the information screen and audio operations screen

## Radio tuner for receiving various broadcasts

- **AM/FM tuner (Page 38)**

Enables reception of analog AM/FM radio broadcasts.



- AM radio operation screen

- **HD RADIO (IBOC) tuner (Page 43)**

Enables reception of HD RADIO (High Definition Radio) broadcasts.



- HD RADIO (IBOC) AM operation screen

# Features

- **SIRIUS tuner (Page 46)**

SIRIUS is a satellite broadcasting service offering music, news, sports and other programming with CD-quality sound; it is available on paying a subscription.



● SIRIUS operation screen

## System additions

- **CD changer (Page 62)**

A CD changer enables non-stop playing of multiple discs, for convenience at times such as taking a long drive.

It is easy to search for and play a song from among the discs on a changer.



- **VTR (Page 90)**

Connecting a VTR deck enables watching of video tapes.



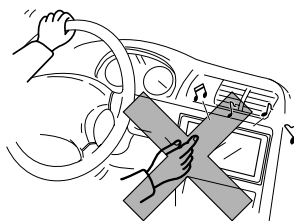
## Easy-access audio controls on the steering wheel (Page 92)

You can select the radio channel and perform CD and DVD operations using the easy-access switches on the steering wheel. (This function is only available on vehicles fitted with steering wheel switches.)

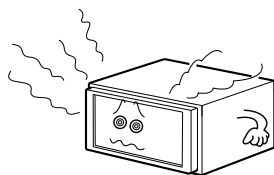
# Before using the deck



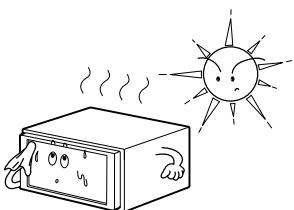
Caution



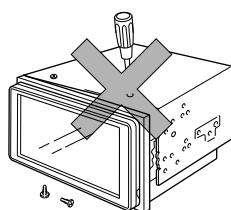
- Be very careful and pay full attention to safety when operating the audio controls while driving, otherwise accidents may occur. Also be sure to set volume so that you can still adequately hear sounds outside the vehicle. Improper use can contribute to occurrence of a traffic accident.



- Never continue to use the system if it is malfunctioning in any way. If smoke, abnormal noises or abnormal odors are noticed, turn off the power immediately. Immediately turn off audio in such situations.



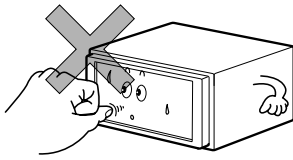
- Exercise caution as to the temperature inside the vehicle. The temperature inside the vehicle can increase during hot weather. Wait for the temperature inside the vehicle to drop before using the unit. Damage could result.



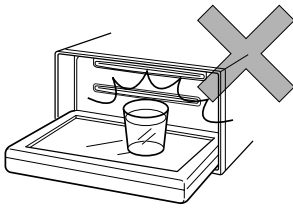
- Do not disassemble or modify the deck. The deck has a precisely designed structure, so consult your retailer in the event of any unsatisfactory performance.



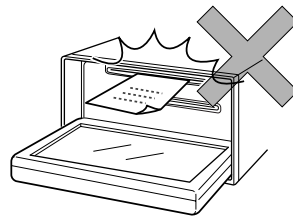
# Before using the deck



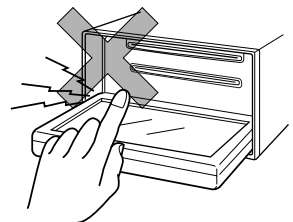
- Do not apply excessive force to the monitor. Damage could result.



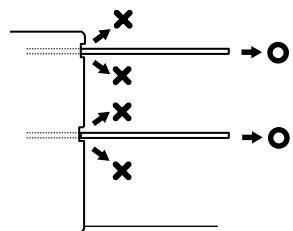
- Do not place items such as cups or cans on top of the monitor, and do not leave the monitor tilted down when not in use. Damage could result.



- Do not insert any objects other than discs into the disc slot. Damage could result.



- Be careful not to get fingers or other objects behind monitor when it is being retracted into place. Interference can cause an injury or damage the deck.



- When removing a disc from the deck, remove it in the horizontally level direction. Do not pull them up forcibly or press down on them strongly while removing them. Improper removal can scratch the disc, cause deck noise or result in other damage.

## About discs



- Water droplets can form on the inside of the unit during cold or rainy weather in the same way car windows can fog up. (This is condensation.) When this happens, the audio can jump and playback can stop, so ventilate or dehumidify the vehicle for a short time before operating the equipment.
- To safeguard the components of the player, the unit will automatically stop when a malfunction occurs. If the player will not operate even when messages displayed on the screen are followed, consult with your equipment retailer because it is possible that the unit has been damaged.
- It is possible that the sound will skip if the vehicle experiences violent motion on rough roads.

### About playable discs

- An audio disc or DVD video disc bearing one of the marks below can be played. When using DVDR/RW (DVD-Recordable/ReWritable) and DVD+R/RW (DVD+Recordable/ReWritable) discs, note that only those whose contents were recorded in the video mode can be played. Discs whose contents were recorded in the video recording (VR) mode cannot be played.



- Discs that are compatible with Dolby Digital and bear the indication below can be used.



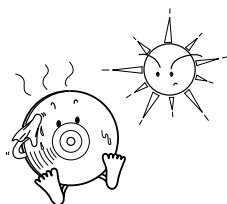
Manufactured under license from Dolby Laboratories, Inc. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

- It is possible that a CD-R (CD-Recordable) or CD-RW (CD-ReWritable) disc will not play on the unit due to the circumstances of the recording, special disc characteristics, scratches, dirt or deterioration caused by long storage in the vehicle. In addition, a CD-R or CD-RW disc written with CD-R, CD-RW or UDF format that has not been finalized will not play on the unit.
- It is possible that a DVD-R/RW (DVD-Recordable/ReWritable) or DVD+R/RW (DVD+Recordable/ReWritable) disc will not play on the unit due to the circumstances of the recording, special disc characteristics, scratches, dirt or deterioration caused by long storage in the vehicle. DVDR/RW or DVD+R/RW discs that have not been finalized will not play on the unit. It may not be possible to play a disc that has been recorded on a personal computer, depending on the application setting and the environment.
- The CD-TEXT function can be used only with the CD-TEXT-compatible compact discs available on the market. If it is used with CD-R or CD-RW discs, characters may not be displayed normally.
- Do not use discs with transparent or semi-transparent portions within the recording area, or C-thru discs, since they may not be accepted and ejected properly and may not play properly.

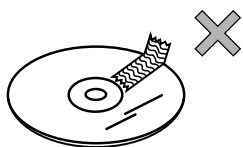
# Before using the deck



## About handling discs



- Be sure to store discs in their cases and keep them out of direct sunlight. Discs can warp and become unusable.



- Do not apply paper-based tape to either the recording side or label side of a disc. Damage could result.



- Do not use discs on which there are cracks or large warps. Damage could result.

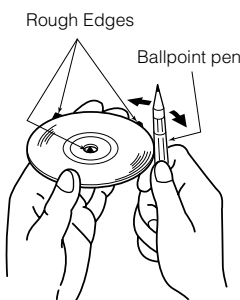


- Do not touch the recorded side of a disc when handling it. (This is the side with the rainbow-colored reflection.) The disc may become dirty and that could cause sound jumping.



- Using a disc that has become dirty can scratch the disc and result in sound jumping. Use a commercially available compact disc cleaner to clean a CD, wiping lightly from the center to the edge.

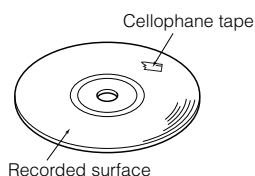
## About new discs



- You may notice that some brand new discs are rough around the center hole or outside edge. Remove the rough edges with the side of a ballpoint pen, etc. Flakes from the rough edges may stick to the recorded surface and interfere with playback.

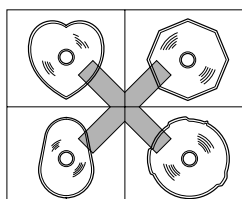


## About rental discs



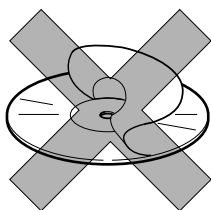
- Do not use CD discs with attached cellophane tape, rental CD discs with glue protruding from labels or discs with the residue of peeled adhesives. Using discs with those conditions can prevent the player from properly opening and closing as well as cause other damage.

## About specially shaped discs

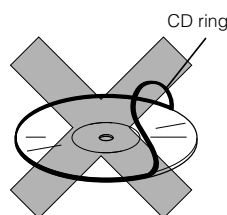


- Specially-shaped or octagonal CDs, like heart-shaped cannot be played. Do not attempt to play them, even with an adapter, since they may damage the player.
- Please do not use a commercially available lens cleaner because it may cause damage to the pickup of the player.

## About disc accessories



- Do not use accessories (stabilizers, protective seals, laser lens cleaners, etc.) sold for "improving sound performance" or "protecting CDs." The changes in CD thickness or outside dimensions made by these accessories may cause problems in the player.



- Please be sure NOT to attach any ring-shape protector (or other accessory) to your discs. Those protectors are commercially available and said to protect disc and to improve sound quality (and antivibration effect), but they can do more harm than good in regular uses. The most common problems are Insert/Eject related problems and "No playback" problems due to the protector ring that come off in the disc mechanism.

## About the LCD panel



- The LCD panel can appear to be white or black when seen from certain angles.
- The screen will be difficult to read when external light such as sunlight falls on the display.

# Switching the mode

The deck can be used when the vehicle's ignition switch is on or in the ACC position.

- This deck supports use of a remote control. The optional remote control is sold separately and can be purchased at your local retailer. Refer to page 94 for instructions on operation of the remote control.

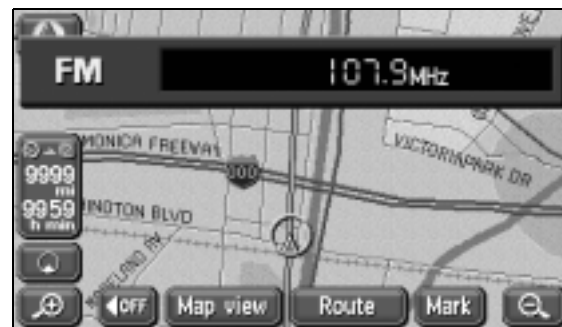
## Switching the mode

**1** Press **(SOURCE) MENU**.

- The AUDIO MENU screen will be displayed.

**2** Touch **FM**.

- The various audio modes can be selected by touching the corresponding touch switches.
- When the navigation screen is being displayed before pressing **(SOURCE) MENU**, the selected mode will be displayed on-screen over the background.



On-screen display

## Displaying operation screen

**1** Press **CONT**.



# Operation screen of each mode

The operation screen for each mode will appear as shown below.

- AM radio operation screen



- FM radio operation screen



- CD player operation screen



- MP3 player operation screen



- DVD player operation screen



- HD RADIO (IBOC) operation screen



- SIRIUS operation screen (optional)



- CD changer operation screen (optional)



- VTR operation screen (optional)



When the operation screen for DVD or video (VTR) has not been operated for 6 seconds or more, the operation screen will automatically be canceled.

# Adjusting the volume

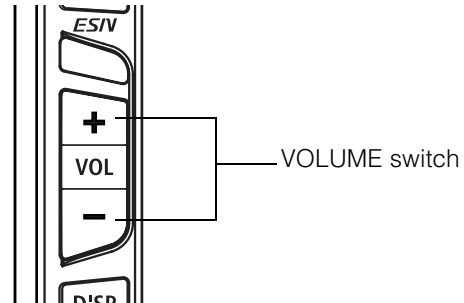
## Adjusting main volume

### 1 Press the VOLUME switch.

Pressing **+** will increase volume.

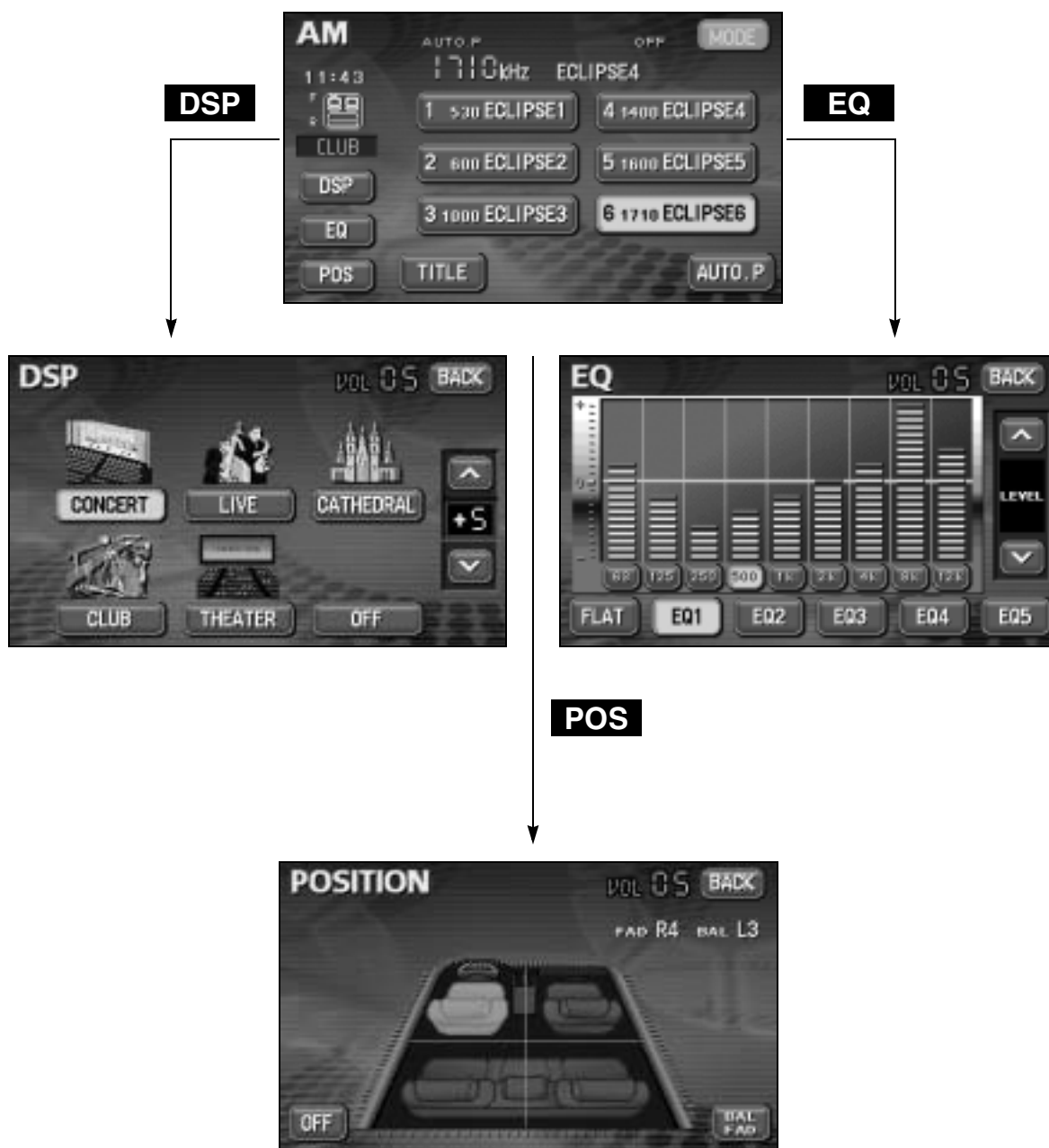
Pressing **-** will decrease volume.

- Each press of the switch will change the volume by two steps. When the volume reaches 50 or higher, the switch will change the volume by one step. Holding the switch will continue to change the volume.



# Adjusting sound quality

To adjust sound quality, touch the DSP, EQ or POS switch while the operation screen for a mode is displayed. Adjustments made in any mode will be saved and applied to all modes.



In the DVD mode, display the sound quality adjustment switches by pressing **NEXT** from the operation modes, and then **SET**. In the VTR mode display them either by pressing **CONT** or by touching the screen.



# Adjusting sound quality

## Setting DSP (acoustics)

The DSP function reproduces the sensation of various factory set performance environments by adding reverberation to the music being played.

### DSP mode setting

- 1 Touching the DSP touch switch brings up the acoustics mode screen as shown.

- After making settings, touch **BACK**. The acoustics mode adjustments will be saved and the system will return to the previous operation screen.



Touch switch	DSP Environment	Touch switch	DSP Environment
<b>CONCERT</b>	Concert hall	<b>CLUB</b>	Disco, Club
<b>LIVE</b>	Live performance arena	<b>THEATER</b>	Movie theater
<b>CATHEDRAL</b>	Church with echo	<b>OFF</b>	DSP OFF

### Adjusting, saving DSP (acoustics)

The factory set DSP (acoustics) level for each mode can be adjusted to preference and saved.

- 1 Touch **▲** or **▼** at the right of the screen while in the acoustics mode to be adjusted.

- There are five + side and five - side adjustment levels available.

- 2 Touch the switch for the acoustics mode that has been adjusted until a beep is heard.



## ***Resetting DSP (acoustics) levels***

Default settings for the currently adjusted and saved DSP (acoustics) level can be reset.

**1** Touch **OFF** until a beep is heard.

- The acoustics level will be returned to default value.



- Only **THEATER** has a default value of +5, in order to increase the sound effects of products such as DVD videos.
- When adjusting the level for the currently selected DSP (acoustics) mode, the level will not be saved for other acoustics modes.

# Adjusting sound quality

## Adjusting EQ (equalizer)

Adjusts sound quality to preferred characteristics according to the music genre and audio source.

### Setting sound quality

Each factory set equalizer pattern can be selected and adjusted to preference.

**1** Touching the touch switch brings up the equalizer mode screen as shown in the table.

- After making settings, touch **BACK**. The equalizer mode adjustments will be saved and the system will return to the previous operation screen.



Touch switch	Equalizer mode types
<b>FLAT</b>	No EQ correction
<b>EQ1</b>	Effective pattern for POPS
<b>EQ2</b>	Effective pattern for ROCK
<b>EQ3</b>	Effective pattern for JAZZ
<b>EQ4</b>	Effective pattern for CLASSIC
<b>EQ5</b>	Effective pattern for VOCAL

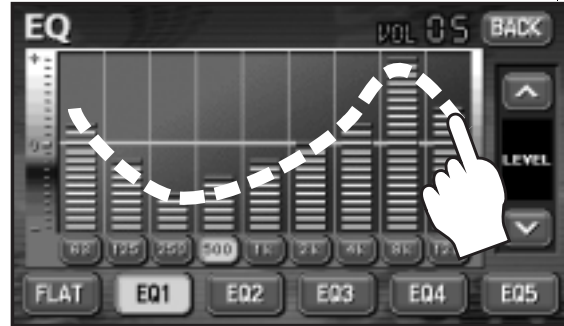


The default setting is **EQ3**.

## Adjusting and saving equalizer (EQ) patterns

Apart from these preset equalizer patterns, you can adjust and record other equalizer patterns to suit your own sound preferences.

- 1 Touch the screen and slowly draw the image of the preferred equalizer curve with your finger.
- 2 To make fine adjustments, touch the switch for the frequency to be adjusted.
- 3 Touch **▲** or **▼** at the right of the screen to adjust.
- 4 Choose from touch switches **EQ1** to **EQ5** for saving the settings and then touch and hold the switch until a beep is heard.
  - The saved equalizer curve can be used for other settings.
  - After making settings, touch **BACK**. The equalizer mode adjustments will be saved and the system will return to the previous operation screen.

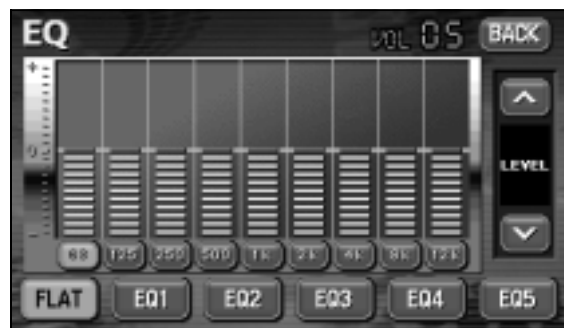


Basic  
operation

## Resetting EQ patterns

Currently saved equalizer patterns and factory set equalizer patterns can be returned to the default values.

- 1 Touch **FLAT** until a beep is heard.
  - The equalizer pattern will be reset to default values.



The default setting is **EQ3**.

# Adjusting sound quality

## Setting POS (position selector)

The stereophonic position for obtaining optimum acoustic effects can be adjusted to match the number and position of passengers.

In addition, front-to-back, right-to-left volume balance can be adjusted for the selected position.

- 1** Touching the image of a seat shown on the **POS** setting screen will change the position.

- The selected position will change its color to orange. Touching the seat again will cancel the selection. The four positions shown by the table below can be set.
- Touching **OFF** will cancel all settings.
- After making settings, touch **BACK**. The position will be saved and the system will return to the previous operation screen.



Touch switch	Function	Touch switch	Function
	Acoustics optimized for driver's seat		Acoustics optimized for both front seats
	Acoustics optimized for passenger's seat		Acoustics optimized for rear seats



- This setting cannot be done at the same time as adjustment of the volume balance (see next page).
- This product is configured for vehicles with a left-side driver's position.

## Adjusting volume balance

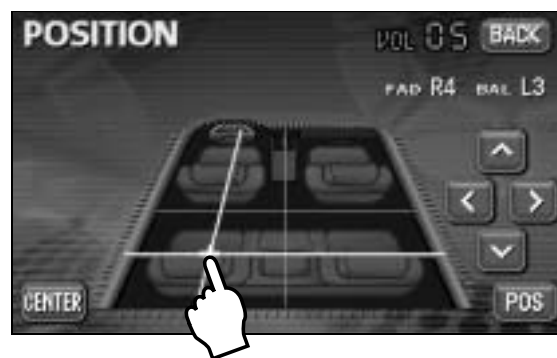
The set position for front-to-back, right-to-left volume balance can be adjusted.

- 1 Touch **BAL . FAD** on the POSITION setting screen to display the volume balance adjustment screen.



- 2 Touch the screen at the preferred balance point.

- To make fine adjustments, touch **▲**, **▼**, **<**, **>**.
- Touching **CENTER** will set the volume balance to the center position.
- After making settings, touch **BACK**.



- The set volume balance will be saved and the system will return to the previous operation screen.
- To set the position again, touch **POS** and repeat the steps above.
- Adjustments to volume balance and position are saved separately. Activating each position and then displaying volume balance adjustment screen will show the volume balance for each position.



- This setting cannot be done at the same time as POS (position selector) adjustment, described on the previous page.
- Touching and holding **▲**, **▼**, **<** or **>** while making fine adjustments will adjust values in a continuous action. However, adjustment will lock when it reaches the center value, and **<**, **>**, **▲** or **▼** must be pressed again to continue adjustment.

# Adjusting sound quality

## Setting the BEEP tone

The guide tone that is emitted when touching a panel switch or touch switch can be set to on or off.

**1** Touch **SETTING** on the INFORMATION screen.

**2** Touch **ON** or **OFF** of GUIDE TONE.

- The pressed touch switch will become green.
- Touching **OFF** will cancel (turn off) the guide tone.

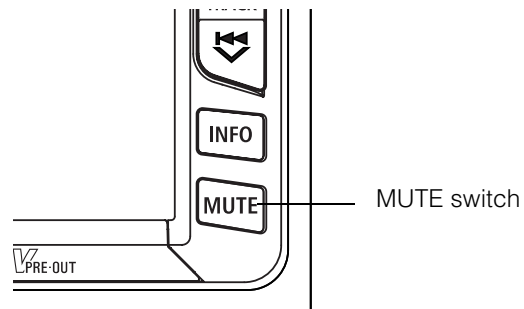
**3** Touch **ENTER**.

## Muting sound

Sound from the audio system can be temporarily muted.

**1** Press **MUTE**.

- Volume will become "0".
- Pressing **MUTE** switch again will return to previous volume.
- The VOLUME display will flash during mute.

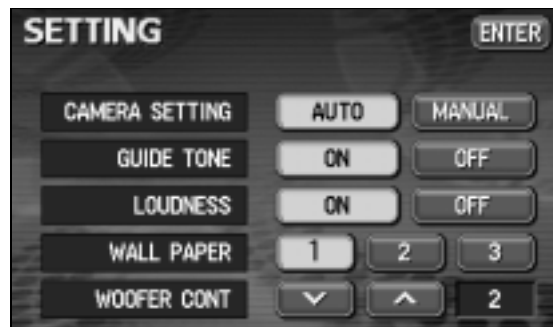


The MUTE function is canceled on pressing the **+** VOLUME switch (it is unaffected by pressing the **-** switch).

## Setting LOUDNESS

Audio can be modulated to correct for insufficient low and high sounds when listening at low volume.

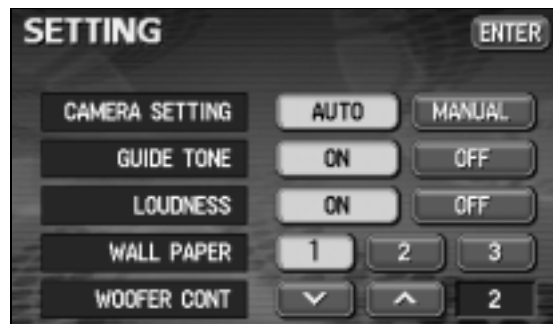
- 1 Touch **SETTING** on the INFORMATION screen.
- 2 Touch **ON** or **OFF** of LOUDNESS.
  - The pressed touch switch will become the selection color.
- 3 Touch **ENTER**.



## Setting subwoofer level

When a woofer is connected, the preferred output level for audio can be set.

- 1 Touch **SETTING** on the INFORMATION screen.
- 2 Touch **▲** or **▼** of WOOFER CONT.
- 3 Touch **ENTER**.





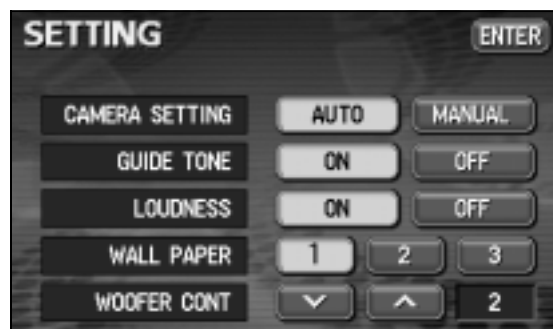
# Setting background screen

The background for the audio screen, information screen and navigation screen can be changed to a preferred wallpaper.

## Setting the wallpaper

### Changing the wallpaper

- 1** Touch **SETTING** on the INFORMATION screen.
- 2** Touch **1**, **2** or **3** of WALL PAPER.
  - The pressed touch switch will become green and the wallpaper (background) will change.
- 3** Touch **ENTER**.



# Adjusting/setting the screen

Quality adjustments can be made for the images such as the audio operation screen, navigation screen and DVD or VTR (optional).

## Displaying the image adjustment screen

Contrast, brightness and other picture settings can be adjusted to match preferences for viewing DVD video or the audio operation screen.

To make viewing easier, the display switches between day screen/night screen according to whether the vehicle lights (parking lights, taillights, license plate lights) are on/off.

(Default settings)

- When vehicle lights are on: [Night screen displayed]
- When vehicle lights are off: [Day screen displayed]

[Audio operation screen]



- Day display [Vehicle lights are off]



- Night display [Vehicle lights are on]

[DVD/VTR Screen]



- Day display [Vehicle lights are off]



- Night display [Vehicle lights are on]

# Adjusting/setting the screen

**1** Press **DISP** on the audio mode screen or DVD/VTR screen.

**2** Touch **ENTER** after making any adjustments.

- If no adjustments are made after 20 or more seconds, the image quality adjustment screen will be canceled.



● When adjusting audio operation screen



● When adjusting DVD/VTR screen

## How to switch to daytime display when the lights are ON

**1** The day screen and night screen will be switched each time **DAY** is pressed.



● When adjusting audio operation screen



● When adjusting DVD/VTR screen

## Turning off the screen

**1** Touch **OFF**.

- Press **CONT** or **NAVI** to return to the original screen.

## Adjusting image quality

The day screen and night screen can be separately adjusted (on the audio operation screen, the navigation screen, and the DVD/VTR screen).



- When adjusting audio operation screen or navigation screen



- When adjusting DVD/VTR screen

### ■ CONTRAST

- 1 Touch **+** to strengthen contrast, **-** to weaken contrast.

### ■ BRIGHT

- 1 Touch **+** to make lighter, **-** to make darker.

### ■ COLOR (for DVD/VTR screen only)

- 1 Touch **+** to strengthen green color, **-** to strengthen red color.

### ■ TINT (for DVD/VTR screen only)

- 1 Touch **+** to make tint darker, **-** to make tint lighter.

## Switching screen mode

- 1 Touch **WIDE** on DVD or VTR operation screen.

- 2 Touch **NORMAL**, **WIDE1**, **WIDE2** or **WIDE3**.

- This selects the wide mode.

- 3 Touch **BACK**.

- Returns to the DVD or VTR operation screen.



# Adjusting/setting the screen



## ■ NORMAL mode

The screen is shown with vertical to horizontal ratio of 3 to 4 (normal TV screen size) and side edges are black.



## ■ WIDE 1 mode

The screen for vertical to horizontal ratio of 3 to 4 (normal TV screen size) is uniformly expanded in the left and right directions.



## ■ WIDE 2 mode

The screen for vertical to horizontal ratio of 3 to 4 (normal TV screen size) is uniformly expanded in the left and right directions (except for the central section of the screen).



## ■ WIDE 3 mode

The screen for vertical to horizontal ratio of 3 to 4 (normal TV screen size) is uniformly expanded in the upward, downward, left and right directions.

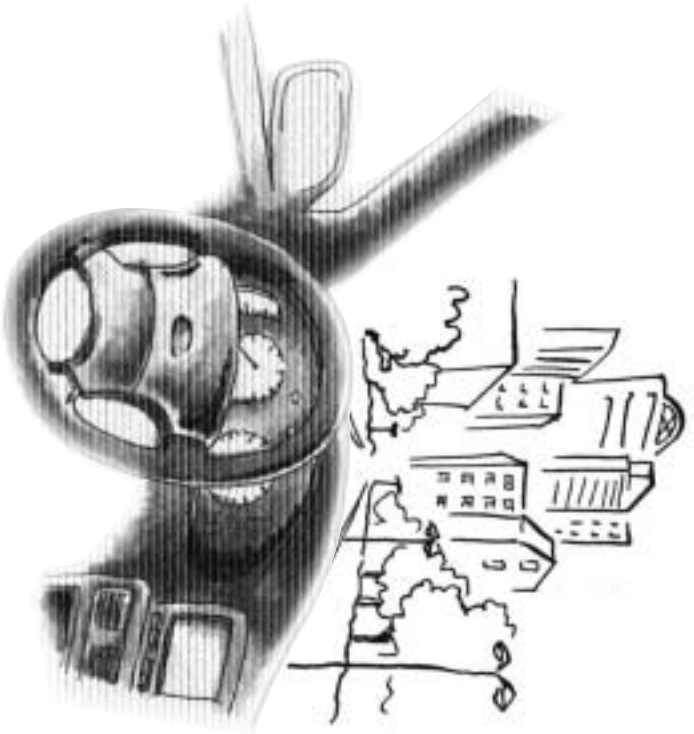


Caution

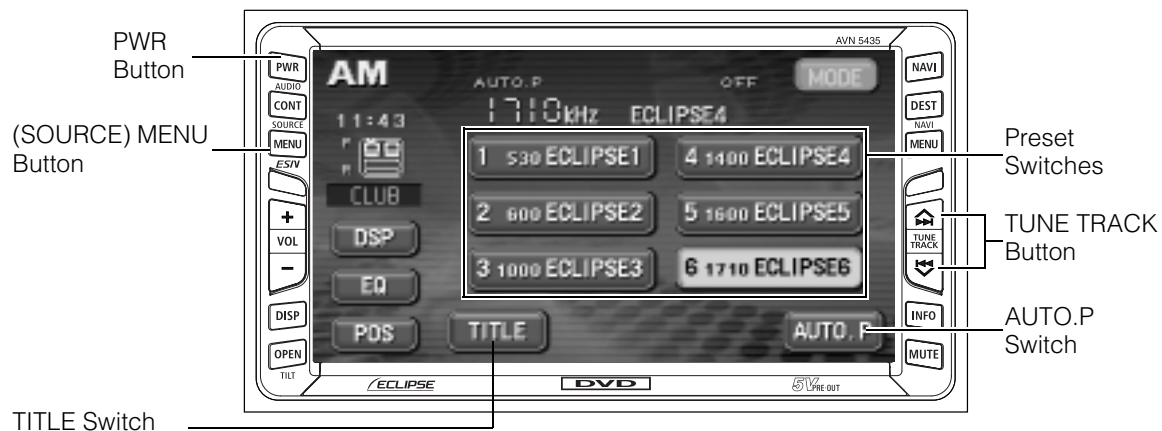
Viewing of wide screen modes is permitted when limited to the personal entertainment of the user, but caution is needed because using technologies such as image compression and expansion for the purpose of commercial benefit or public presentation may infringe upon the rights of the copyright holder being protected by applicable copyright law.

# MEMO

Basic  
operation



# Operating the AM/FM radio



## Listening to the AM/FM radio

- 1** Press **(SOURCE) MENU**.
- 2** Touch **AM** to receive AM radio, or **FM** to receive FM radio.



When an HD radio (IBOC) tuner is connected, the standard radio (analog radio) is also controlled through the HD radio tuner. Note that this means the antenna should be connected to the HD terminal.

## Selecting radio stations

### *Manual selection*

**1** Press  or .

- Each pressing of the switch moves the frequency one step up or down. (One step on the AM band is 10kHz. One step on the FM band is 0.2MHz.)



(up switch): Raises frequency



(down switch): Lowers frequency

### *Automatic selection*

**1** Press and hold the  or  switch until a beep is heard.

- The station that is closest in frequency to the frequency that is currently displayed on the screen will be searched for automatically, and searching will stop when the station is received. To stop the search before a station is found, press the button again.

### *Selection using preset switches*

**1** Touch the preset switch that already has a station recorded.

- Refer to "Saving radio stations" on page 45 for details on saving stations.



If the reception for a particular station is weak in the area you are in, automatic selection may not work.



# Operating the AM/FM radio

## Saving radio stations

There are two modes for saving radio stations, manual and AUTO.P, and these modes operate independently.

### *Saving manually*

Confirm that "AUTO.P" is not displayed in the upper part of the screen.

- If "AUTO.P" is displayed, touching **AUTO.P** will switch the screen to manual.

**1** Use manual tuning or automatic tuning to select the station to be saved.

**2** Choose a preset switch and touch it until a beep is heard.

- The radio station (frequency) is set. Touching the preset switch will now tune in the selected station.

### *Saving with AUTO.P*

**1** Touch **AUTO.P** until a beep is heard.

- The AUTO.P function will be activated and start automatically selecting stations. A beep will be heard when automatic selection of stations is completed. On touching **AUTO.P** again, the display will switch to the previously recorded station.

### *Changing stations saved by AUTO.P*

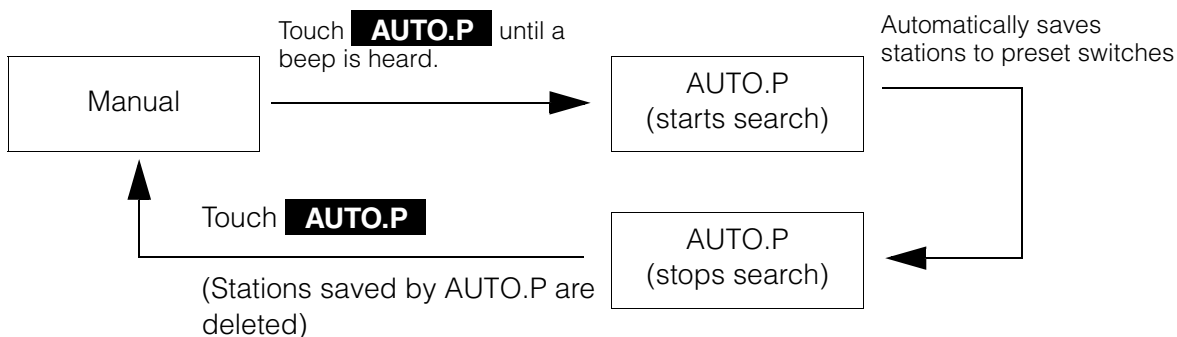
**1** Use manual tuning or automatic tuning to select the station to be saved.

**2** Choose a preset switch and touch it until a beep is heard.

### About AUTO.P

Because AUTO.P temporarily saves stations for the preset switches, stations saved manually will remain in memory even if AUTO.P is used. By manually saving stations that are used regularly, these manually saved stations can be restored even after AUTO.P has been used, such as after traveling.

Touching **AUTO.P** while AUTO.P is being used or after AUTO.P has been used will return the preset memories back to the condition they had before AUTO.P was used. (Doing so will delete the stations saved with AUTO.P.) The flow for switching from AUTO.P to manual is shown below.



- AUTO.P may not automatically receive stations if radio waves in the surrounding area are weak.
- A station saved by the tuning switch may not match a station saved by AUTO.P even though the signal is received from the same station.
- Due to conditions for receiving radio waves, saved stations may differ even when the AUTO.P switch is operated repeatedly in the same location.
- Up to six stations having good reception sensitivity are automatically saved in order starting from the lowest frequency.
- When less than six stations capable of reception are found, nothing is saved for the remaining preset switches.

# Operating the AM/FM radio

## Displaying information about the track being played

Information about the current track, such as the name of the radio station, the album and the title of the track can be displayed.

**1** Touch **TITLE**.

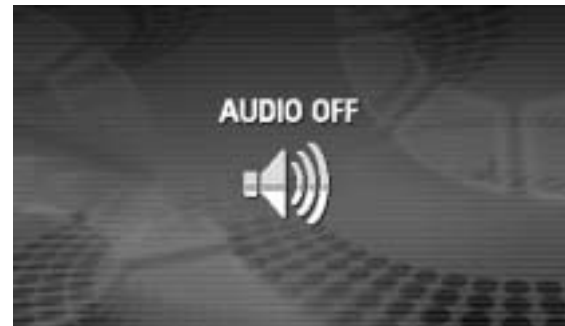
- Touch **TITLE OFF** to return to the operation screen.



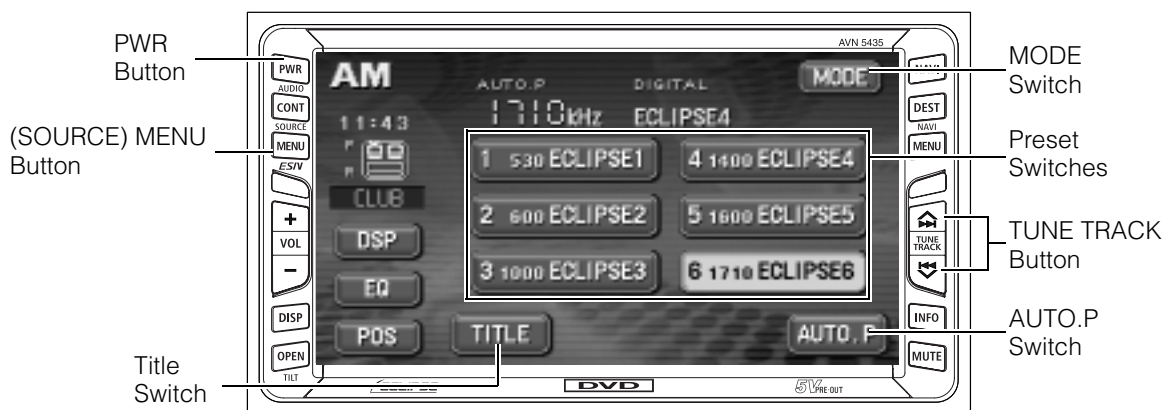
## Turning off the radio

**1** Press **PWR**.

- Pressing **PWR** again will turn on the radio and resume reception of the radio station (frequency) received before power was turned off.



## Operation when an HD RADIO (IBOC) tuner has been connected



### Listening to HD RADIO (IBOC)

When receiving HD Radio (High Definition Radio) broadcasts, FM reception has the same quality as a CD, and AM reception has the same quality as conventional FM sound.

Depending on the reception status, HD Radio can also receive analog broadcasts, which means reception is still possible in regions with no digital coverage.

- 1** Press **(SOURCE) MENU**.
- 2** Touch **AM** to receive AM radio, or **FM** to receive FM radio.
  - During HD RADIO (IBOC) reception, "DIGITAL" is displayed.



To receive AM/FM analog broadcasting, touch **MODE** and select "OFF."

## *Operation when an HD RADIO (IBOC) tuner has been connected*

### Selecting radio stations

#### *Manual selection*

**1** Press  or .

- Each pressing of the switch moves the frequency one step up or down. (One step on the AM band is 10kHz. One step on the FM band is 0.2MHz.)



(up switch): Raises frequency



(down switch): Lowers frequency

#### *Automatic selection*

**1** Press and hold the  or  switch until a beep is heard.

- The station that is closest in frequency to the frequency that is currently displayed on the screen will be searched for automatically, and searching will stop when the station is received. To stop the search before a station is found, press the button again.

#### *Selection using preset switches*

**1** Touch the preset switch that already has a station recorded.

- Refer to "Saving radio stations" on page 45 for details on saving stations.



If the reception for a particular station is weak in the area you are in, automatic selection may not work.

## Saving radio stations

There are two modes for saving radio stations, manual and AUTO.P, and these modes operate independently.

### *Saving manually*

Refer to "Operating the AM/FM radio" on page 40.

### *Saving with AUTO.P*

Refer to "Operating the AM/FM radio" on page 40.

### *Changing stations saved by AUTO.P*

Refer to "Operating the AM/FM radio" on page 40.

## Displaying information about the track being played

When receiving an HD RADIO (IBOC) broadcast, information about the current track, such as the name of the radio station, the album, the title of the track, the artist, and the musical genre, can be displayed.

### 1 Touch **TITLE**.

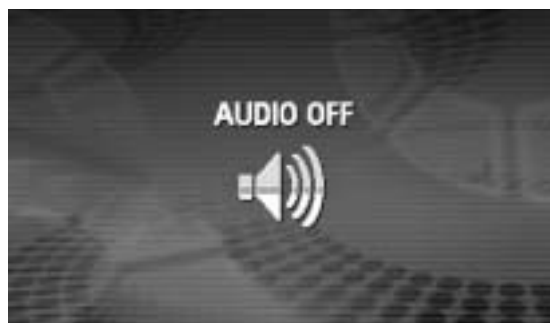
- Touch **TITLE OFF** to return to the operation screen.



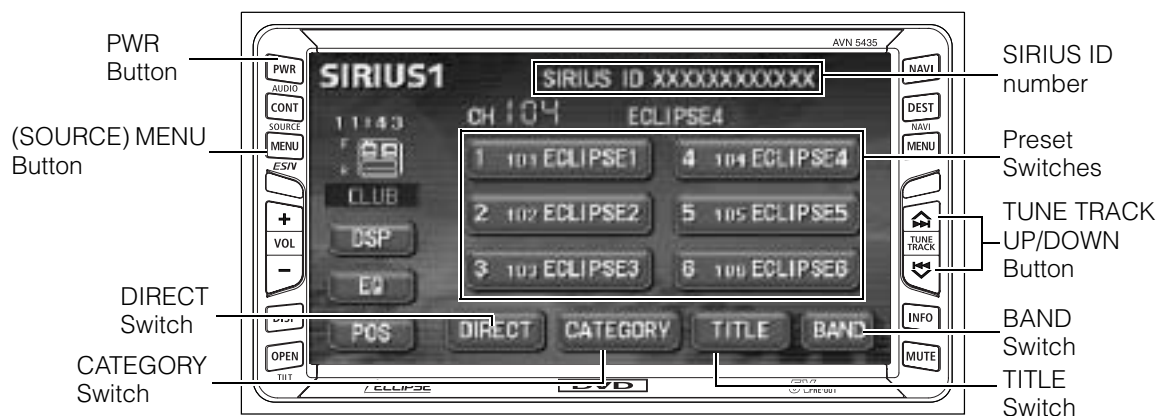
## Turning off the radio

### 1 Press **PWR**.

- Pressing PWR again will turn on the radio and resume reception of the radio station (frequency) received before power was turned off.



## Operation when a SIRIUS satellite radio tuner has been connected



### Listening to SIRIUS satellite radio

With SIRIUS satellite radio, over 100 channels are available including music, news, and entertainment programs.

You can select the channel you want from 14 categories such as POP and ROCK, or you can select a channel by direct input.

Reception of SIRIUS satellite radio is charged; you have to subscribe to it.

**1** Press **(SOURCE) MENU**.

**2** Touch **SIRIUS**.

### Check the SIRIUS ID

**1** If a SIRIUS satellite radio tuner is connected, the SIRIUS ID number (12 digits) is displayed at the top right of the SIRIUS operation panel.

SIRIUS ID \* \* \* \* \*  
 12 digits code (number)



- The SIRIUS ID number changes at each connection of a SIRIUS satellite radio tuner.
- The SIRIUS ID number is displayed as 12 numerical digits.

## Changing the SIRIUS band

**1** Touch **BAND** on the SIRIUS operation screen.

- The BAND changes.

[SIRIUS 1] ↓ [SIRIUS 2] ↓ [SIRIUS 3] ... ↓ return to [SIRIUS 1]

## Selecting the channel you want to listen to

### Selecting from the available categories

**1** Touch **CATEGORY**.

**2** Select the category that you want.

- Touch **▲** or **▼** to switch categories.



If the selected category is unobtainable, the blank category button appears.

### Selecting a channel by direct input

**1** Touch **DIRECT**.

**2** Input a channel.

**3** Touch **ENTER**.





## *Operation when a SIRIUS satellite radio tuner has been connected*

### Displaying information about the track being played

During SIRIUS broadcasts, information including the channel name, the album name, the title, and the artist can be displayed for the current track.

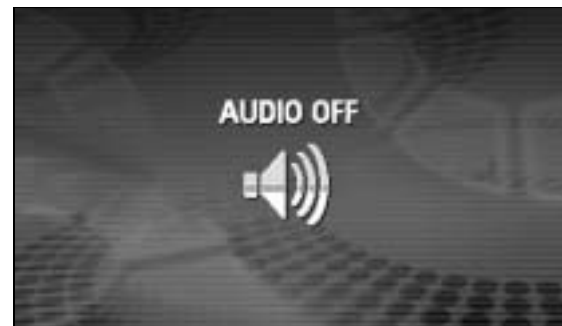
**1** Touch **TITLE**.

- Touch **TITLE OFF** to return to the operation screen.



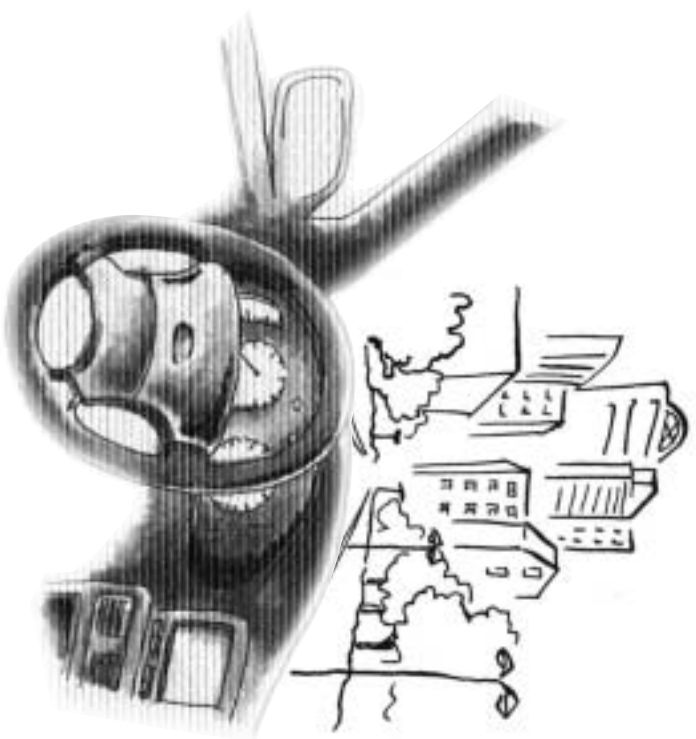
### Turning off the SIRIUS

**1** Press **PWR**.

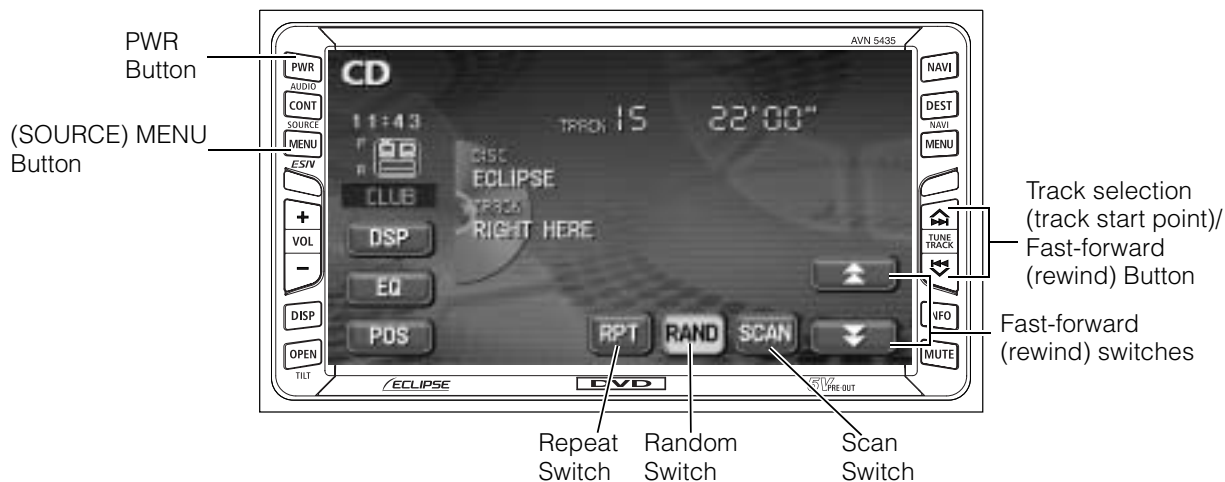


# MEMO

RADIO



# How to use the CD player



## Listening to a CD

When a CD is inserted into the disc slot, it automatically starts playing.

**1** Press **(SOURCE) MENU** while a CD is inserted.



**2** Touch **CD**.

- Playback will begin.

## Selecting a song

You can jump to the opening of a song you want to hear.

**1** Press  or .

-  (up): Selects next song
-  (down): Selects previous song







- Titles and song names can be displayed when they are recorded on a CD. Up to 32 characters can be shown in the display.
- Only characters recorded by ASCII code can be shown on the CD-TEXT display.
- The CD-TEXT display may not be able to show characters for discs recorded with many title characters.

---

## Fast-forwarding/rewinding

It is possible to fast-forward/rewind in the song being played.

- 1** Press  or  until a beep is heard, or touch and hold  or .



(up): Fast-forwards



(down): Rewinds

The deck switches to the fast-forward (rewind) mode when the beep is heard and will continue fast-forwarding (rewinding) until your finger is removed from the switch.

---

## Searching for a song

- 1** Touch **SCAN**.

- The deck will play the first 10 seconds of each song. Touching **SCAN** again will continue playing the current song.

---

## Repeating a song

- 1** Touch **RPT**.

- Touching **RPT** once will cause repeating of the song until the function is canceled. Touching **RPT** again will cancel repeating of the song.

---

## Playing songs in random order

- 1** Touch **RAND**.

- Touching **RAND** will play songs in random order until the function is canceled. Touching **RAND** again will cancel random playing of songs.
- The song to be played next is randomly selected at the end of current song, so it is possible that a single song could end up being played twice in a row.

---

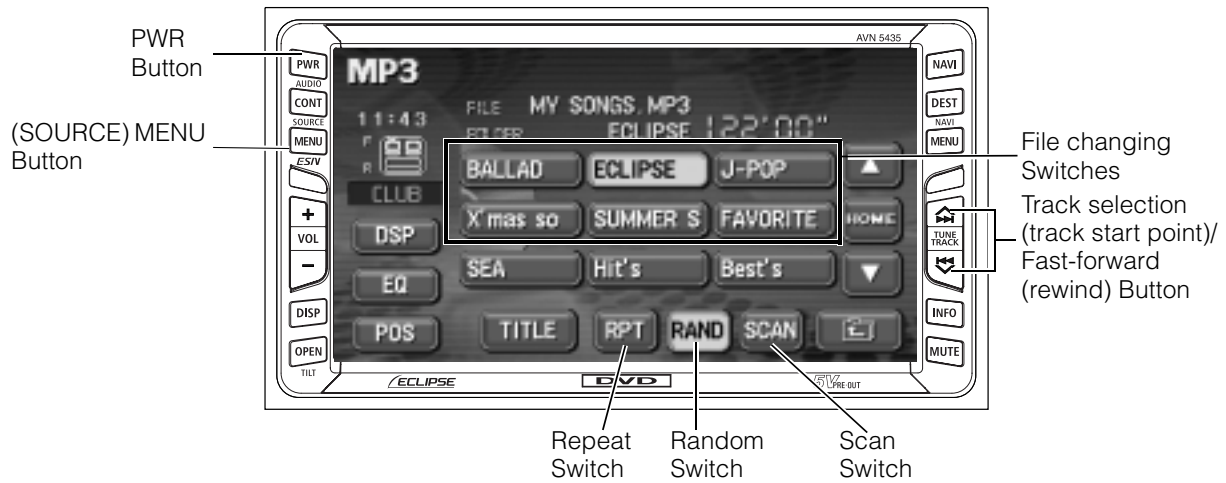
## Turning off the CD player

- 1** Press **PWR**.

- Pressing **PWR** again will start playing

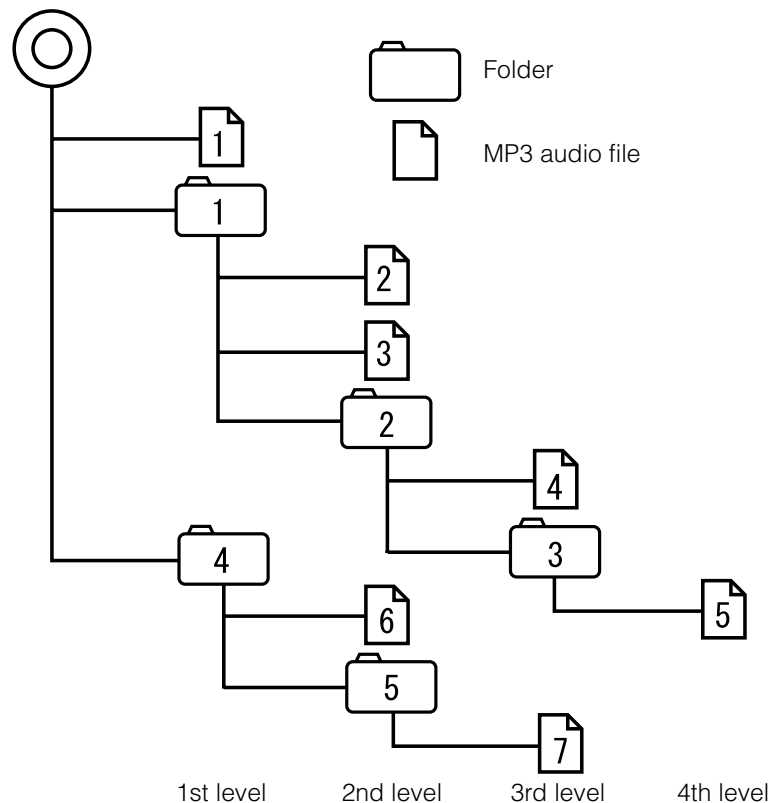
# How to use the MP3 player

For safety considerations, some functions are disabled while the vehicle is in motion.



The following operating procedures are based on this example of MP3 file structure below.

## Example of MP3 file structure










## Playing MP3

When a CD is inserted into the disc slot, it automatically starts playing.

**1** Press **(SOURCE) MENU** while a disc is inserted.

**2** Touch **MP3**.

- Playback will begin.
- The CD player screen will be shown for about 2 seconds as the system checks whether the inserted CD is a music CD or an MP3 disc.
- Normally, tracks are played back in the order  ↓  ↓  ↓  ↓  ↓  ↓ .
- When multiple MP3 files and folders are on the same level, they are played in ascending order by folder and file names.



## Selecting a music file

A music file located within a folder can be selected.

MP3

### Selecting with file change switch



**1** Touch the music file.

- The currently selected file name and folder name will be shown in the display.
- When more than 10 music files are located in the same folder, touching  or  can switch between the data. (This function is not available when the vehicle is in motion.)

### Selecting with TUNE/TRACK button

When several music files are located in the same folder, the next music file or previous music file can be selected with the track selection (track start point).

**1** Press  or .

-  (up): Selects next music file
-  (down): Selects previous music file





- If sound data and MP3 data are mixed on the same disc, only the data recorded in the first session can be played.
- When MP3 is being played, navigation operation will become slower. This is not a malfunction of the system.

# How to use the MP3 player

## Fast-forwarding/rewinding

It is possible to fast-forward/rewind in the song being played.

**1** Press and hold the  or  switch until a beep is heard.


-  (up): Fast-forwards
-  (down): Rewinds

The deck switches to the fast-forward (rewind) mode when the beep is heard and will continue fast-forwarding (rewinding) until your finger is removed from the switch.

## Changing display of the current level

The folder level can be switched and displayed.

**1** Touch  or **HOME**.

-  : Displays the next higher folder level.
- **HOME** : Displays the level of the file currently being played.

## Displaying the current level

Displays the file currently being played.

**1** Touch **HOME**.







## Searching for a music file

**1** Touch **SCAN**.

- The system will play the first 10 seconds of each song located within the same layer of the folder currently being played. Touching **SCAN** again will continue playing the current song.



Refer to page 60 for an example of MP3 file structure.

When the display shows the folder and files of the second level (,  and ) as  of the third level is being played, touching **HOME** will show the folder and files of the third level ( and .

---

## Repeating the same music file

### 1 Touch **RPT**.

- The file currently being played will be repeated.
- Setting RPT will cause repeating of the song until the function is canceled. Touching **RPT** again will cancel repeating of the song.

---

## Playing songs in random order

### 1 Touch **RAND**.

- Files will be randomly selected from among all files at the same level as the folder currently being played.
- **RAND** will play songs in random order until the function is canceled. Pressing **RAND** again will cancel random playing of songs.
- Touching **RPT** while the random function is operating will repeat the currently playing song. Touching **RPT** again will return to random playing of songs.
- The song to be played next is randomly selected at the end of current song, so it is possible that a single song could end up being played twice in a row.



# How to use the MP3 player

## About display of file information

Folder names and file information (album name and song titles) recorded on the disc can be displayed. The number of characters that can be displayed is as shown below.

Screen Display	
Folder/file names	Music file information
8 characters max.	30 characters max.

### Displaying folder/file names

- 1 Press **CONT** to display the operation screen.



### Displaying file information

- 1 Touch **TITLE**.
  - The **TITLE** switch will change to **TITLE OFF** while file information is being displayed. Touching **TITLE OFF** will change the display to a folder/file switch.



## Turning off the MP3 player

- 1 Press **PWR**.
  - Pressing **PWR** again will start playing.

## About MP3

MP3 (MPEG-1 Audio Layer III) is a standard format for audio compression technology. By using MP3, a file can be compressed to one-tenth the size of the original.

This unit has limitations on MP3 file standards and recorded media and formats that can be used. Be aware of the following points when recording MP3 files.

### *Playable MP3 file standards*

- Supported standards : MPEG-1 Audio Layer III
- Supported sampling frequencies : 32, 44.1, 48 (kHz)
- Supported bit rate : 32, 40, 48, 56, 64, 80, 96, 112, 128 (kbps)
  - \* Supports VBR.
  - \* Does not support free format.
  - \* Bit rates vary for MPEG-1 and MPEG-2.
- Supported channel modes : stereo, joint stereo, dual channel, monaural



Caution

Use 128kbps or lower for the MP3 bit rate. If the bit rate exceeds 128kbps, there may be sound jumping during MP3 playback.

### *ID3 tags*

MP3 files have an "ID3 Tag" that allows input of information so that data such as song title and artist can be saved.

This unit supports ID3v.1.0 and ID3v.1.1 tags. Use only ASCII code to record tags, since only ASCII code is supported by this deck. Recording of characters not included in ASCII code will result in display of garbled characters.

### *Media*

Media capable of playing MP3 includes CD-ROM, CD-R and CD-RW discs.

Compared to CD-ROM media commonly used for music discs, CD-R and CD-RW discs are fragile in high temperature/high humidity environments and one section of the CD-R/CD-RW may become incapable of playback. Fingerprints or scratches on the disc may prevent playback or cause skipping during playback.

Sections of CD-R/CD-RW may deteriorate if left inside a vehicle for long periods of time.

It is also recommended that CD-R/CD-RW discs be kept in a light-blocking case because the discs are vulnerable to ultra-violet light.

# How to use the MP3 player

## Format of discs

The format of discs to be used must be ISO9660 Level 1 or Level 2. Also be sure to use "MODE 1" for recording. Discs recorded with "MODE 2" are not supported.

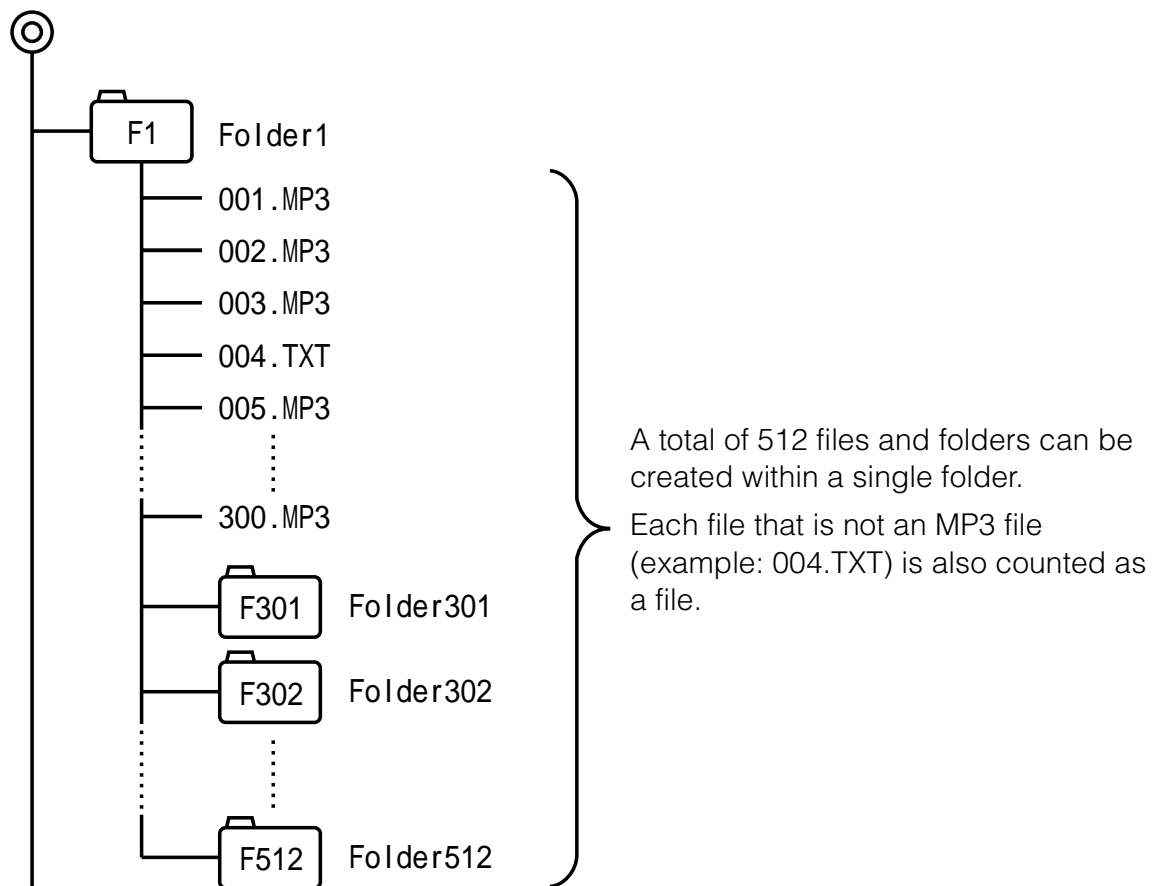
MP3 files recorded in a format other than the one explained above may result in files that cannot be played normally and in file names and folder names that do not display properly.

Limitations in addition to standards are as follows.

- Maximum directory layers : 8 layers
- Maximum characters for folder names/file names : 31 (including "." and 3 letter file extension)
- Allowable characters for folder names/file names : A to Z, 0 to 9, \_ (underscore)
- Number of files/folders possible on a single disc : 512

Each file that is not an MP3 file (files with extensions other than "MP3") is also counted as a file.

### Configuration example for CD supporting MP3



- A total of 1023 files and folders can be recorded on a single disc.

## ***File names***

Only files with the MP3 file extension ".mp3" can be recognized as MP3 and played. Be sure to save MP3 files with the ".mp3" file extension.

Use half-width English capital letters to write "MP" of the extension.

## ***Multi-sessions***

Multisessions are supported and CD-R/RW with recorded MP3 files can be played. When written with "Track at once", however, finalize the disc with session close or write protect.

## ***Playing MP3***

When a disc having MP3 files recorded on it is inserted into the deck, the system first checks all the files on the disc. If the number of files and folders is large, the check will take some time.

While the system is checking the disc, the music that had been playing continues to play.

In order to speed up completion of the file check, it is recommended that you avoid recording files that are not MP3 files and avoid establishing unnecessary folders.

In addition, it is recommended that you record all data in a single session because a multisession disc takes time for CD control information acquisition.

When MP3 is being played, navigation operation will become slower. This is not a malfunction of the system.

## ***MP3 playing time display***

It is possible that playing time will not be correct, depending on the writing condition of the MP3 file.

\* It is possible that playing time will not be correct when VBR Fast Up/Down is operated.

## ***Display order of MP3 file/folder names***

Names of MP3 folders and files within the same level are displayed in the following order.

1. MP3 files displayed first, by ascending order of numbers, letters.
2. Folders displayed next, by ascending order of numbers, letters.



Caution

If the ".mp3" file extension is attached to a file other than an MP3 file, that file will be mistakenly recognized by the unit as an MP3 file and played, resulting in loud noise output that can damage the speakers. Be sure to avoid attaching the ".mp3" file extension to files that are not MP3 files.

# ***How to use the MP3 player***

## **Making and playing MP3 files**

MP3 files created by recording broadcasts, records, audio recordings, video recordings or live performances cannot be used for purposes other than personal entertainment without permission of the copyright holder as set forth in copyright law.

### ***Downloading from Internet MP3 music sites***

There are many kinds of sites that distribute MP3 files on the Internet, such as "pay per download" online shopping sites, "try before you buy" listening sites and free download sites. Follow the rules for each site (such as paying fees) and download according to site instructions.

### ***Converting CD music to MP3 files***

Prepare a computer with commercially available MP3 encoding software (conversion software). (Some encoding programs available on the Internet do not require payment.) Music data files in MP3 format can be made by inserting the music CD into the CD-ROM drive of the computer and following the procedures of the MP3 encoding software to compress the songs of the music CD. A 12cm music CD (having a maximum of 74 minutes of recording/650MB of data) can be compressed to 65MB (about 1/10 of the original size).

### ***Writing to CD-R/CD-RW***

MP3 files can be recorded on CD-R/RW by using a CD-R/RW drive connected to a computer. Record by setting the recording format of the recording software to ISO9660 level 1 or level 2 (not including extension format).

Select CD-ROM (mode 1) for the disc format. Discs recorded with CD-ROM xA (mode 2) cannot be played on this deck.

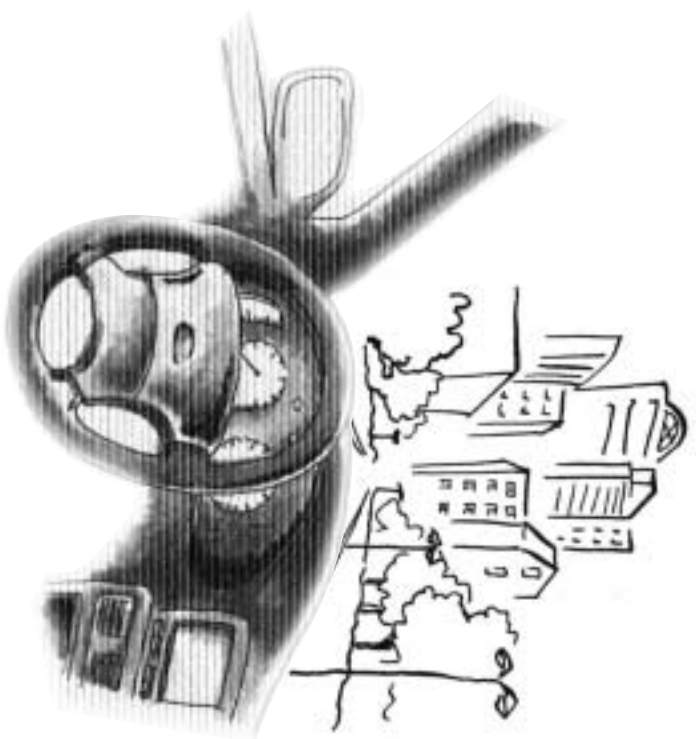
### ***When playing back CD-R/RW***

Insert a CD-R/RW disc having recorded MP3 files. The system will automatically determine whether the disc is a music CD or a CD-R/RW with MP3 files and begin playing the disc. A music CD recorded onto a CD-R/RW can also be played. However, depending on the type of disc being used, a disc may not play.



- A fixed bit rate of 128kbps and sampling frequency of 44.1kHz is recommended for obtaining stable audio quality at playback.
- Depending on the characteristics of a disc, CD-R and CD-RW may not be able to read the disc.
- Because there are many types of MP3 encoding software available, including commercial and freeware programs, audio quality may deteriorate, noise may be generated when playing starts and some recordings may not play, depending on the condition of the encoder and the file format.
- When files other than MP3 files are recorded on a disc, the system may take some time to recognize the disc and it may not play the disc.

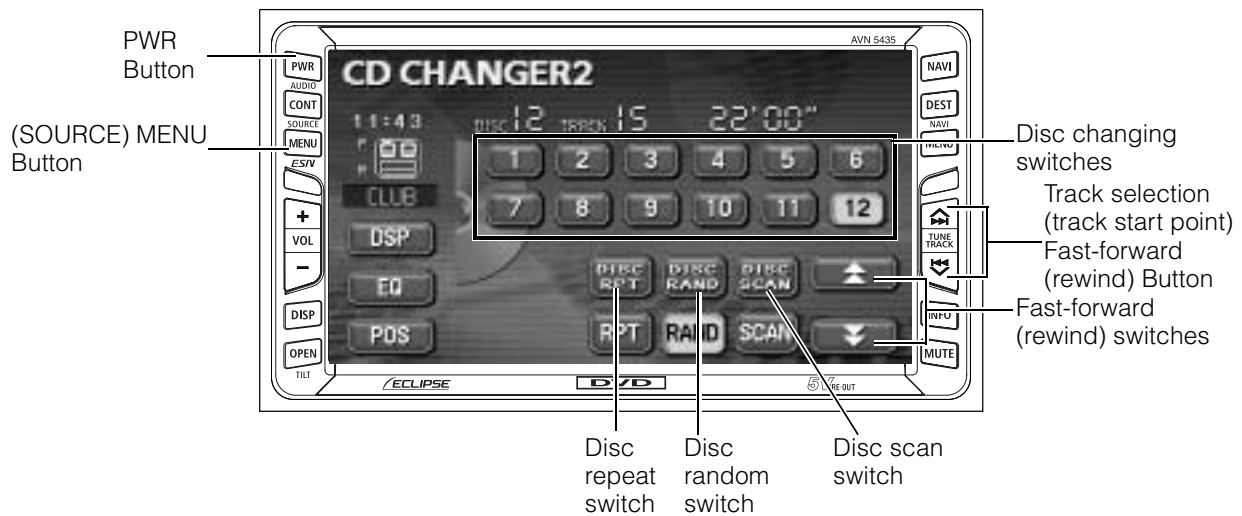
# MEMO



MP3

# How to use the CD changer

An optional CD changer can be connected and used.



## Listening to a CD

- 1 Press **(SOURCE) MENU**.
- 2 When only one CD changer is connected, touch **CD<sub>CH1</sub>**. When two CD changers are connected, touch **CD<sub>CH1</sub>** or **CD<sub>CH2</sub>**.

## Selecting a song

Refer to "How to use the CD player" (Page 50).

## Fast-forwarding/rewinding

Refer to "How to use the CD player" (Page 51).

## Selecting a CD

A CD can be selected from among all the discs on a changer.

### 1 Touch one of the disc changing switches.

- The number for the selected CD will change color.

## Searching for a song or CD from all CDs in changer

### *Searching for a song*

Refer to "How to use the CD player" (Page 51).

### *Searching for a CD*

### 1 Touch **DISC SCAN**.

- The system will play the first 10 seconds of the first song on each CD in the changer.  
Touching **DISC SCAN** again will continue playing the current song.



- The system will display the amount of disc changing switches that matches the number of CDs that can be inserted into the CD changer, and it will only allow selection of disc numbers that have discs currently loaded.
- No operation is possible when there are no discs loaded into the CD changer.
- If two CD changers are connected, switch between the optional CD changer deck and the CD changer with **CD<sub>CH1</sub>** / **CD<sub>CH2</sub>**.

CD changer

## Repeating a song or CD

### *Repeating the current song*

Refer to "How to use the CD player" (Page 51).

### *Repeating the current CD*

### 1 Touch **DISC RPT**.

- Touching DISC RPT once will cause repeating of the CD until the function is canceled.  
Touching **DISC RPT** again will cancel repeating of the CD.



# ***How to use the CD changer***

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## **Playing songs in random order**

### ***Playing songs on current CD in random order***

Refer to "How to use the CD player" (Page 51).

### ***Playing songs on all CDs in random order***

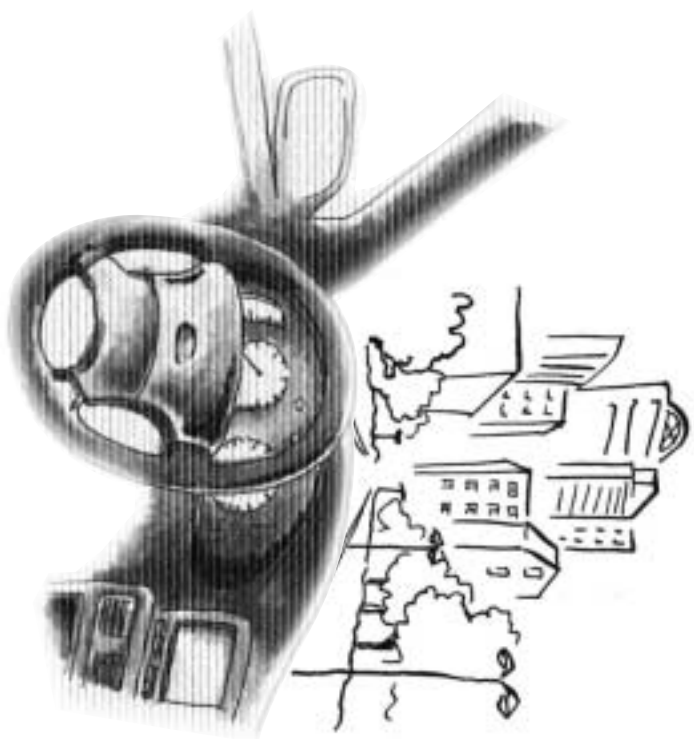
#### **1** Touch **DISC RAND**.

- Touching **DISC RAND** will play songs in random order until the function is canceled. Touching **DISC RAND** again will cancel random playing of songs.
- The song to be played next is randomly selected at the end of current song, so it is possible that a single song could end up being played twice in a row.

## **Turning off the CD player**

#### **1** Press **PWR**.

- Pressing PWR again will start playing



CD changer

*MEMO*

# Before using the DVD player

This unit can play high quality images and high quality digital sound of DVD videos. It is also possible to switch between different languages recorded on the DVD video (dubbing, subtitles, etc.), and with videos having several angles of the same scene recorded, the preferred angle can be selected and played.

## DVD video characteristics

### About Multiple Languages

Some DVD discs have dialog recorded in several different languages, and the language can be switched during playback in the same way as multilingual TV broadcasts.



**An airplane was flying  
in the night sky...**

### About Multiple Angles

Some DVD discs have a single scene recorded from several different angles (multiple angle), and the preferred angle can be switched during playback.

\* Depending on the disc, multiple angles may not be recorded.



The angle of the image is changed.



Caution

This unit includes copyright protection technology used in accordance with US patents and other intellectual property rights owned by Macrovision Corporation and other entities. Use of this copyright protection technology requires approval from Macrovision Corporation and the technology must not be used for audiovisual purposes aside from general household use without special approval from Macrovision Corporation. Modification and disassembly of this technology is prohibited.

## About Subtitles



Some DVD discs have subtitles recorded in several different languages, and the subtitles can be switched during playback. The video can also be played without any subtitles displayed.



## About discs

### About playable discs


This unit conforms to NTSC color television methods, so please use discs that display "NTSC" on the disc or package. This unit cannot play discs using color television methods other than NTSC (such as PAL, SECAM).

Playable Disc Types and Their Marks	Size/Playing Surface	Maximum Playing Time
	12 cm/single-sided 1 layer 2 layer	Using MPEG 2 133 min. 242 min.
	12 cm/double-sided 1 layer 2 layer	266 min. 484 min.

# ***Before using the DVD player***

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## ***About region codes of playable discs***




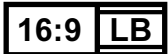



Some DVD discs display a  ("Region Code"). The mark (a number) shows the geographical region where the disc can be played. This unit will not play discs that do not show "1" or "ALL" in this mark. Even if the disc does play, the message "Cannot play this disc" will be displayed on the screen. Note also that some discs may be subject to regional restrictions, meaning that this unit will not play them, even though they are not marked with a region code.



The playing condition is determined by the intention of the DVD/software creator. Some functions may not perform during operation because this unit is playing the disc according to content specifications intended by the software creator. Be sure to consult the explanatory material provided with the disc to be played.

## About marks displayed on discs

The following marks may be displayed on a DVD disc or its package.

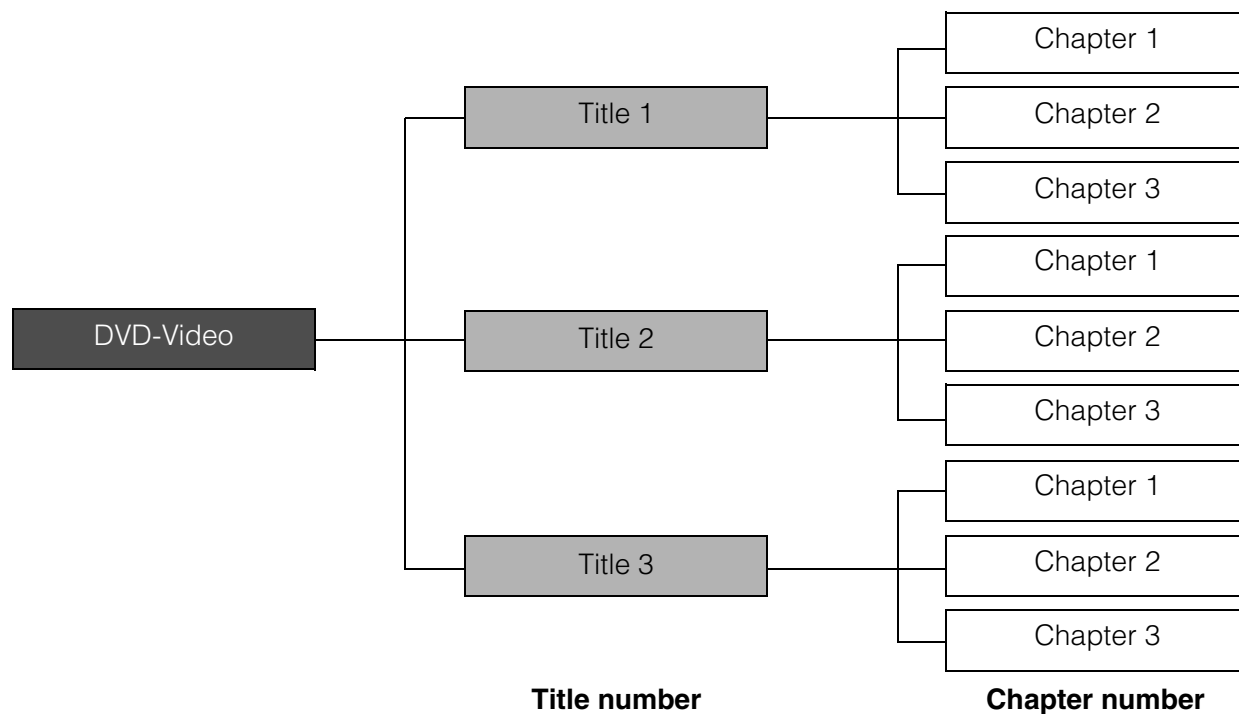
Mark		Meaning
		Shows number of voice tracks.
		Shows number of subtitle languages.
		Shows number of filmed angles.
		Shows available aspect ratio (television screen horizontal to vertical ratio). • "16:9" is wide screen, "4:3" is standard screen.
		Shows playable region code. • ALL indicates worldwide. A number indicates a specific region code. "1" is the region number for North America.

# Before using the DVD player

## About DVD disc structure

Videos and songs recorded on a DVD are divided into many segments.

Large segments are called "titles", and each title has a number ("title number"). Title segments are further divided into smaller segments called "chapters", and each chapter has a number ("chapter number").



## About flow of operations

The section below describes the flow for items such as operation and search of images and default settings for the DVD player.

- Touching a touch switch brings up the operation screen shown below.

● DVD operation screen



● Title screen



**SEARCH**



**BACK**



**NEXT**



**BACK**



**BACK**

● Menu operation screen



**NUMBER**



**BACK**

● Menu number search screen



**SET**



**BACK**



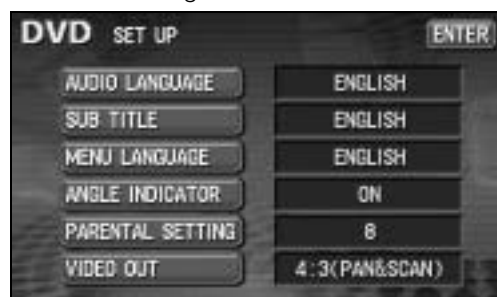
**SETUP**



**ENTER**



● Default settings screen





# How to use the DVD player

A DVD can be watched only if the vehicle is completely stopped in a safe location with the parking brake set and the ignition switch turned to ON or ACC. (Only sound can be heard if a DVD is played while the car is in motion.)



## Watching a DVD

Start playback by inserting a DVD into the DVD insertion slot, which will automatically turn on power.


**1** Press **(SOURCE) MENU** while a disc is inserted.

**2** Touch **DVD**.

- Playback will begin.
- If the operation switches (touch switches) are being displayed, press **CONT** or touch the screen.

## Operating the video

### Playing the video

- 1 Touch .





### Fast-forwarding/rewinding

It is possible to fast-forward or rewind through the video being played.

### Using panel button

- 1 Press and hold the  or  switch until a beep is heard.

-  (up): Advances the video
-  (down): Rewinds the video
- The deck switches to the fast-forward (rewind) mode when the beep is heard and will continue fast-forwarding (rewinding) until your finger is removed from the switch.

### Fast-forwarding/rewinding using the touch switches

- 1 Touch  or .

- The deck switches to the fast-forward (rewind) mode when the beep is heard and will continue fast-forwarding (rewinding) until your finger is removed from the switch.



- Information for items such as touch switches will be displayed for about 6 seconds. Pressing **CONT** or touching the screen will display them again.
- Depending on the disc, automatic playback may not function or playback may not function unless a menu recorded on the disc is selected. (Refer to "Operating the disc menu" on page 75.)

# How to use the DVD player

## Pausing the video

1 Touch **⏏**.

- While paused (**⏏**), briefly touching **⏮** will play in slow motion and touching **⏏** will play frame-by-frame.



## Stopping the video

1 Touch **■**.



## Operating the disc menu

It is possible to use the menu recorded on the disc.

- 1 Touch **NEXT** on the DVD operation screen.
- 2 Touch **MENU** or **TOP MENU**.
- 3 Touch **+**.
- 4 Touch **↑** **↓** **←** **→** and select the video to play.
- 5 Touch **ENTER**.



## Turning off the DVD

- 1 Press **PWR**.
  - Pressing **PWR** again will start playing.



# How to use the DVD player

## Searching for a desired chapter

It is possible to search for a particular video segment by title and chapter or by menu number (number for divided segments).

### Searching by chapter

**1** Press  or .

-  (up): Selects next chapter
-  (down): Selects previous chapter



Recorded menu items will differ by disc. Some functions may not perform during operation because playback is following disc content specifications.

### Searching by title number

**1** Touch **SEARCH** on the DVD operation screen.

- The title number input screen will be displayed.

**2** Input the title number by touching

**-**, **+**, **-10**, **+10**.

- Touching **-** or **+** changes the title number by ones.
- Touching **-10** or **+10** changes the title number by tens.

**3** Touch **ENTER**.



## Searching by menu number

1 Touch **NEXT** on the DVD operation screen.

2 Touch **+**.



3 Touch **NUMBER**.

- The menu number input screen will be displayed.



4 Input the menu number by touching **-**, **+**, **-10**, **+10**.

- Touching **-** or **+** changes the menu number by ones.
- Touching **-10** or **+10** changes the menu number by tens.

5 Touch **ENTER** on the DVD operation screen.



# How to use the DVD player

## Changing the touch switch display

Display of the touch switches can be changed or turned off.

### Turning off the touch switches

- 1 Touch **OFF** on the DVD operation screen.

- Pressing **CONT** or the touching the screen will display the touch switches again.



### Changing the touch switch display locations

- 1 Touch **NEXT** on the DVD operation screen.

- 2 Touch .

- 3 Touch **POSITION**.

- The position of the touch switch will move up or down with each touch of the screen.



**POSITION** ↑ ↓ **POSITION**



## Switching between screen display and audio

It is possible to change the language for subtitles, the language for audio and the display angle for the video being played.

### Switching the video angle

When several angles of a scene are recorded on a disc, the angle can be switched.

**1** Touch **NEXT** on the DVD operation screen.

**2** Touch **ANGLE** when the multi-angle mark is displayed.

- The angle number will be displayed.



**3** Touch **ANGLE**.

- The angle number will change and the angle of the video will be switched.



DVD



Each time **ANGLE** is pressed, the angle will change in order from among the angles recorded on the disc.



# How to use the DVD player

## Switching subtitle languages

When subtitles in several languages are recorded on a disc, the subtitles can be switched.

**1** Touch **NEXT** on the DVD operation screen.

**2** Touch **SUB TITLE**.

- The subtitle number and language will be displayed.



**3** Touch **SUB TITLE**.

- Switches the subtitle number each time the touch switch is touched and switches the displayed subtitle language.

Subtitle number and language



- Each time **SUB TITLE** is pressed, the subtitle language will change in order from among the subtitles recorded on the disc.
- Depending on the disc, it may only be possible to change subtitles from the top menu.

## Switching dubbed audio language

When dubbed voices in several languages are recorded on a disc, the voices can be switched.

**1** Touch **NEXT** on the DVD operation screen.

**2** Touch **AUDIO**.

- The audio number and language will be displayed.



**3** Touch **AUDIO**.

- The audio number will change and the language of voices being played will be switched.

Audio number and language



- Each time **AUDIO** is pressed, the audio language will change in order from among the languages recorded on the disc.

Language 1 → Language 2 → Language...

- Depending on the disc, it may only be possible to change the language from the top menu.
- The dts format is not supported by this deck, so no audio will be emitted when "dts audio" is selected by a disc having dts audio recorded on it. In this case, select "Dolby Digital audio" from that is definitely recorded on the DVD video.
- dts is a registered trademark of the US company Digital Theater Systems, Inc.

# How to use the DVD player

## Setting the DVD player

The language preference for voices, subtitles and menu display used during DVD playback can be set in advance. Optional display of the multiple angle mark, viewer restriction and other functions can also be set.

**1** Touch **NEXT** on the DVD operation screen.

**2** Touch **SET**.

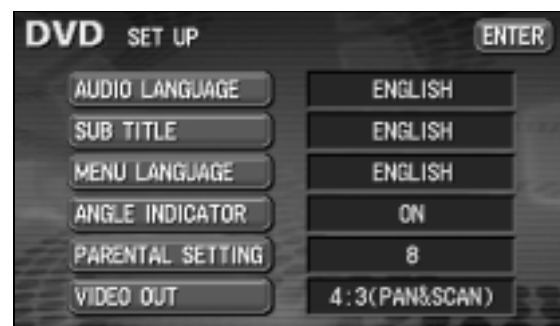


**3** Touch **SETUP**.

- The SET UP screen will be displayed.




**4** Touch any of the touch switches. Settings can be made for the following items.



Touch switch	Function	Page
<b>AUDIO LANGUAGE</b>	Sets the language of voices for video playback.	83
<b>SUB TITLE</b>	Sets the language of subtitles for video playback.	84
<b>MENU LANGUAGE</b>	Sets the language of displayed menus.	85
<b>ANGLE INDICATOR</b>	Sets display/non-display of multiple angle mark.	86
<b>PARENTAL SETTING</b>	Restricts the types of DVD videos that can be played.	87
<b>VIDEO OUT</b>	Sets screen size.	88



Pressing one of the switches that can switch screens ( **CONT** or **(SOURCE) MENU** ) without touching **ENTER** after changing settings with the default setting screen will stop playing of the DVD. Touch  on the operation screen to start playback again. (Refer to page 72.)

## Setting the audio language

The preferred language for the video being played can be selected.

**1** Touch **AUDIO LANGUAGE** on the SET UP screen.

**2** Touch the preferred language.

- Touching **OTHER** enables setting of a language other than those displayed on the screen.



## Input a code

**1** Touch **OTHER** on the AUDIO LANGUAGE setting screen.

**2** Input a language code.

- Refer to "Table of language codes" on page 89 for language codes.

**3** Touch **ENTER**.



DVD

# How to use the DVD player

## Subtitle language setting

The preferred subtitles for the video being played can be selected.

**1** Touch **SUB TITLE** on the SET UP screen.

**2** Touch the preferred language.

- Touching **OTHER** enables setting of a language other than those displayed on the screen.
- Touching **OFF** plays the video with no subtitles on the screen.



## Input a code

**1** Touch **OTHER** on the SUB TITLE setting screen.

**2** Input a language code.

- Refer to "Table of language codes" on page 89 for language codes.

**3** Touch **ENTER**.



Language switching cannot be performed if the selected language is not recorded on the disc.

## Menu language setting

Allows selection of a preferred menu language from those recorded on the disc.

**1** Touch **MENU LANGUAGE** on the SET UP screen.

**2** Touch the preferred language.

- Touching **OTHER** enables setting of a language other than those displayed on the screen.



## Input a code

**1** Touch **OTHER** on the MENU LANGUAGE setting screen.

**2** Input a language code.

- Refer to "Table of language codes" on page 89 for language codes.

**3** Touch **ENTER**.



# How to use the DVD player

## Setting display of multi-angle mark (angle selection mark)

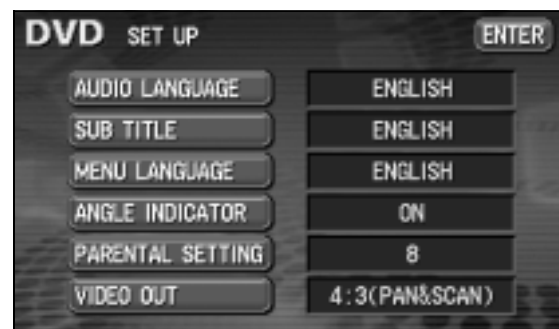
The multi-angle mark can be set to display/not display for the video being played.



**1** Touch **ANGLE INDICATOR** on the SET UP screen.

- Each time ANGLE INDICATOR is pressed, the condition will switch between "ON" and "OFF".

**2** Touch **ENTER**.



- Language switching cannot be performed if the selected language is not recorded on the disc.
- Setting multi-angle mark display to "ON" will display the multi-angle mark in the upper right corner of the screen when multiple angles are available on the disc.

## Viewer restriction setting

This function allows restriction of viewing so that discs with adult themes or violent scenes will not be available to children. Viewer restriction can be set at different levels to match restriction ratings.

**1** Touch **PARENTAL SETTING** on the SETUP screen.

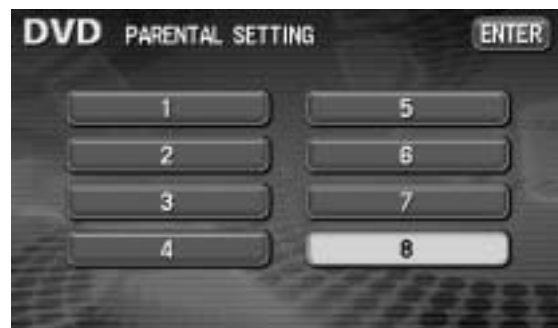
**2** Enter a password (4 digits) by touching one number at a time.

**3** Touch **ENTER**.



**4** Touch the preferred restriction level.

**5** Touch **ENTER**.



- Restriction cannot be set for discs not having a viewer restriction level recorded.
- Be sure to enter a password number. If a number is not entered, setting of viewer restriction will not be possible.
- The password to be shown in the upper section will be displayed as ---- when a password has not yet been set.
- Once the password has been set, the password will be required for subsequent use of this function. Please do not forget the password. If the password is forgotten, the default condition (no password set) can be restored by touching **CLEAR** 10 times.
- Viewer restriction levels are classified in 3 types.
 

Level 1 .....	Plays only DVD software intended for children. (Playing of DVD software intended for general audiences or adult audiences is prohibited.)
Level 2 - 7 .....	Plays only DVD software intended for children or general audiences. (Playing of DVD software intended for adult audiences is prohibited.)
Level 8 .....	Plays all DVD software. (Factory setting)

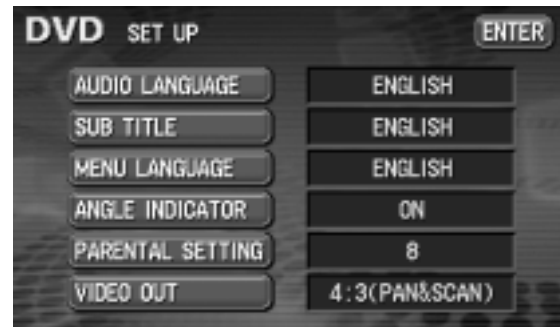
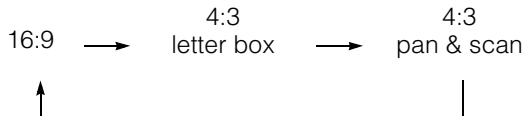


# How to use the DVD player

## Changing video output

**1** Touch **VIDEO OUT** on the SETUP screen.

- Each time VIDEO OUT is pressed, the screen size will be changed in the order shown below.



**2** Touch **ENTER**.

- 16:9**  
The video is displayed in normal wide size. DVD software recorded in 4:3 size will be displayed with black left and right edges or will be expanded to the left and right.
- 4:3 (letter box)**  
The video is displayed with black upper and lower edges.  
DVD software recorded in 4:3 size will be displayed exactly at screen size (4:3).
- 4:3 (pan & scan)**  
The video is displayed with right and left edges cut off. DVD software recorded in 4:3 size will be displayed exactly at screen size (4:3).



When another monitor such as the rear seat monitor is being used, the size of the video being displayed in the rear seat monitor will differ according to the video output size that is set by the deck (front).



Viewing of wide screen modes is permitted when limited to the personal entertainment of the user, but caution is needed because using technologies such as image compression and expansion for the purpose of commercial benefit or public presentation may infringe upon the rights of the copyright holder being protected by applicable copyright law.

## Table of language codes

These codes are used to specify the language for audio tracks, subtitles and on-screen menu displays.

Input code	Language
1001	Japanese
0514	English
0618	French
0405	German
0920	Italian
0519	Spanish
1412	Dutch
1821	Russian
2608	Chinese
1115	Korean
0512	Greek
0101	Afar
0102	Abkhazian
0106	Afrikaans
0113	Amharic
0118	Arabic
0119	Assamese
0125	Aymara
0126	Azerbaijani
0201	Bashkir
0205	Byelorussian
0207	Bulgarian
0208	Bihari
0209	Bislama
0214	Bengali
0215	Tibetan
0218	Breton
0301	Catalan
0315	Corsican
0319	Czech
0325	Welsh
0401	Danish
0426	Bhutani
0515	Esperanto
0520	Estonian
0521	Basque
0601	Persian
0609	Finnish
0610	Fiji
0615	Faroese
0625	Frisian
0701	Irish
0704	Scots-Gaelic
0712	Galician
0714	Guarani
0721	Gujarati

Input code	Language
0801	Hausa
0809	Hindi
0818	Croatian
0821	Hungarian
0825	Armenian
0901	Interlingua
0905	Interlingue
0911	Inupiak
0914	Indonesian
0919	Icelandic
0923	Hebrew
1009	Yiddish
1023	Javanese
1101	Georgian
1111	Kazakh
1112	Greenlandic
1113	Cambodian
1114	Kannada
1119	Kashmiri
1121	Kurdish
1125	Kirghiz
1201	Latin
1214	Lingala
1215	Laothian
1220	Lithuanian
1222	Latvian
1307	Malagasy
1309	Maori
1311	Macedonian
1312	Malayalam
1314	Mongolian
1315	Moldavian
1318	Marathi
1319	Malay
1320	Maltese
1325	Burmese
1401	Nauru
1405	Nepali
1415	Norwegian
1503	Provençal
1513	Oromo
1518	Oriya
1601	Panjabi
1612	Polish
1619	Afghan
1620	Portuguese

Input code	Language
1721	Quechua
1813	Rhaeto-Romance
1814	Kirundi
1815	Romanian
1823	Kinyarwanda
1901	Sanskrit
1904	Sindhi
1907	Sangho
1908	Serbo-Croatian
1909	Sinhalese
1911	Slovak
1912	Slovenian
1913	Samoan
1914	Shona
1915	Somali
1917	Albanian
1918	Serbian
1919	Siswati
1920	Sesotho
1921	Sundanese
1922	Swedish
1923	Swahili
2001	Tamil
2005	Telugu
2007	Tajik
2008	Thai
2009	Tigrinya
2011	Turkmen
2012	Tagalog
2014	Setswana
2015	Maori
2018	Turkish
2019	Tsonga
2020	Tatar
2023	Twi
2111	Ukrainian
2118	Urdu
2126	Uzbek
2209	Vietnamese
2215	Volapuk
2315	Wolof
2408	Xhosa
2515	Yoruba
2621	Zulu

# How to use the VTR

Connecting a VTR deck enables watching of video tapes. Videos can be played only if the vehicle is completely stopped in a safe location with the parking brake set and the ignition switch turned to ON or ACC. (Only sound can be heard if a VTR is played while the car is in motion.)



## Viewing the VTR

**1** Press **(SOURCE) MENU**.

**2** Touch **VTR**.

- The VTR screen will be displayed.
- Press **CONT** or touch the screen to display the VTR operation screen.

## Turning off the VTR mode

**1** Press **PWR**.

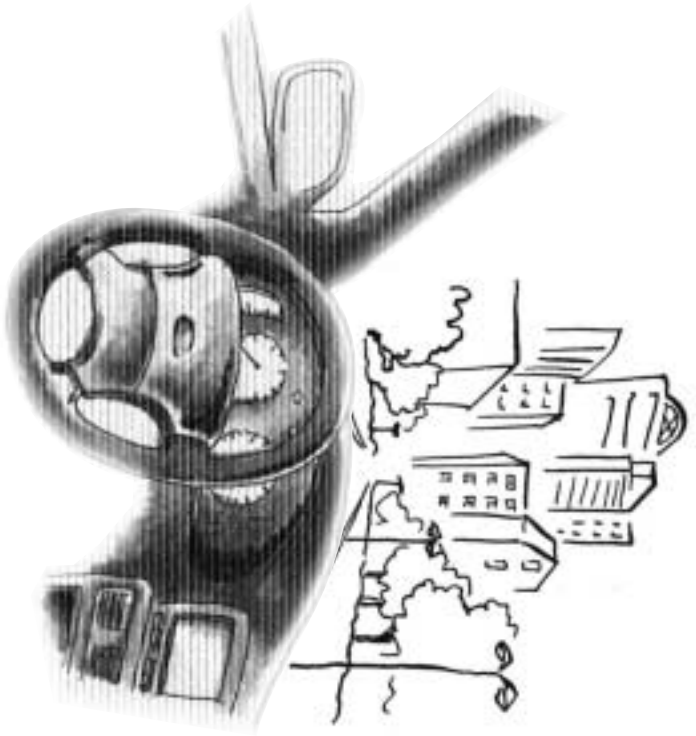
- Pressing PWR again will start playing
- Video can also be played by pressing **(SOURCE) MENU** and touching **VTR**.



ATTENTION

- After switching to the VTR operation screen, touch switches will be displayed for about 6 seconds. Pressing **CONT** will display them again.
- The VTR operation screen will be displayed by touching the screen, even when the VTR is playing.
- Depending on the kind of devices connected, the video image may not be displayed correctly.

# MEMO

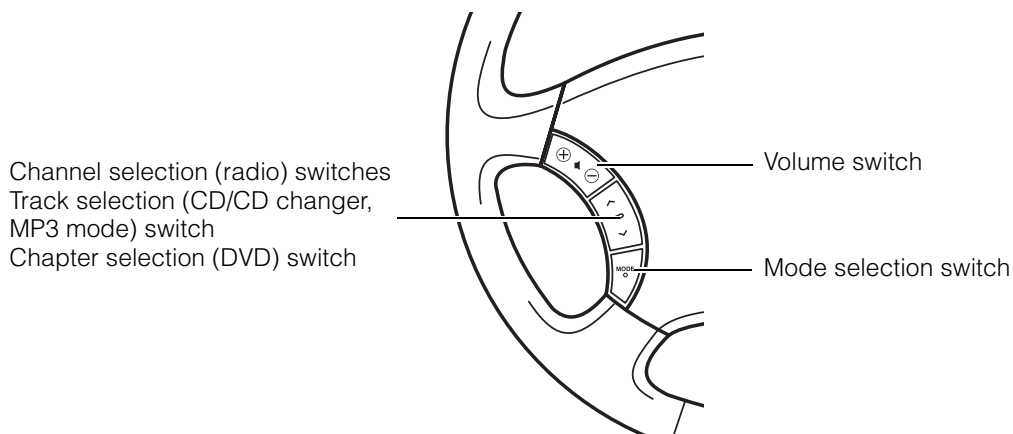


VTR

# About the steering wheel switches

On vehicles equipped with steering wheel switches, these easy-access switches can be used to perform the main audio and other operations.

## Function names and summaries



## Common operations

Switch	Name	Function	Explanation of operation
(+) (-)	Volume switch	Each momentary actuation of these switches changes the volume one step. Hold a switch down for a continuous volume change.	(+): Volume UP (-): Volume DOWN
(MODE)	Mode selection switch	<ul style="list-style-type: none"> <li>When the power is OFF, pressing this switch turns it ON.</li> <li>The mode changes. AM ↓ FM ↓ CD ↓ MP3 ↓ (CD changer) ↓ DVD ↓ (VTR) ↓ SIRIUS ↓ return to AM</li> <li>Press the switch until it beeps to turn the power OFF.</li> </ul>	Each time <b>(MODE)</b> is pressed while the power is ON, the mode changes.

## Radio operations

Switch	Name	Function	Explanation of operation
( < ) ( > )	Channel selection switch	<ul style="list-style-type: none"> <li>• Calls up the preset broadcast channels in order.</li> <li>• Pressing the switch until it beeps starts automatic channel selection.</li> </ul>	Pressing ( < )/( > ) briefly: Used to select the next (previous) preset channel Pressing ( < )/( > ) for longer: Starts automatic channel selection.

## CD/MP3 player operations

Switch	Name	Function	Explanation of operation
( < ) ( > )	Track selection switches	Selects the next track or previous track.	( < ): Used to select the next track. ( > ): Used to select the previous track.

## DVD operations

Switch	Name	Function	Explanation of operation
( < ) ( > )	Chapter selection switches	Selects the next chapter or previous chapter.	( < ): Used to select the next chapter. ( > ): Used to select the previous chapter.

## CD changer operation

Switch	Name	Function	Explanation of operation
( < ) ( > )	Track selection switches	<ul style="list-style-type: none"> <li>• Selects the next track or previous track.</li> <li>• Press the switch until it beeps to go to the next disc or previous disc.</li> </ul>	Pressing ( < )/( > ) briefly: Selects the next track or previous track. Pressing ( < )/( > ) for longer: Selects the next disc or previous disc.

## ***How to use an optional remote control (1602)***

The optional remote control is sold separately. Ask for one at the store of purchase.

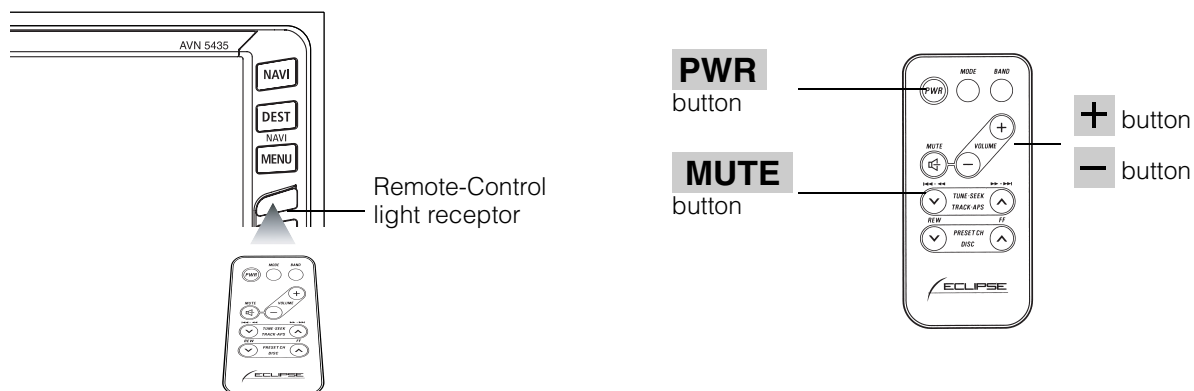


### **Precautions in use of the remote control**

- Be careful when handling the remote control, especially because it is small and light. Dropping or striking it hard may damage it, wear out the battery or cause a malfunction.
- Keep the remote control free of moisture, dust and water. Do not subject it to shock.
- Do not place the remote control unit where it will get hot, such as on the dashboard or near a heater vent. Allowing the remote control unit to overheat may warp its case or cause other problems.
- Do not operate the remote control unit while driving because doing so could cause an accident.
- When using the remote control, point it directly at the remote control light receptor.
- The light receptor may not operate correctly if it is exposed to bright light such as direct sunlight.
- Be sure to press the [PWR] button on the main unit for more than two seconds to shut it down before leaving the car, or the car battery may be run down. When the main unit is shut down, the remote control will not work.
- Remove the batteries from the remote control unit whenever it is not to be used for a long time.

### **Cleaning the remote control**

- Use a dry cloth to keep the unit clean. If the remote control unit gets extremely dirty, clean it with a cloth moistened in diluted liquid detergent. Do not use alcohol or thinner; these compounds may damage the finish.
- In no event should benzine or thinner be used. These substances will damage the case or finish.



## Turning the power on/off

When the power is turned on, the state used when the power was turned off such as CD and tuner playing is restored.

**1** Press **PWR**.

- The power turns on or off each time the button is pressed.



When the main unit is shut down, the remote control will not work.

## Adjusting the audio volume

**1** Press **+** or **-**.

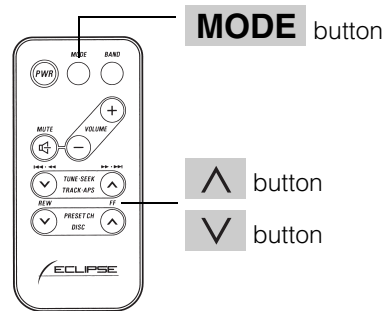
- **+** button : Increases the volume.
- **-** button : Decreases the volume.

### Muting the volume

Press **MUTE** to cut the volume or restore it instantly.



# How to use an optional remote control (1602)



## Switching playback modes

**1** Press **MODE**.

- Press the button to switch modes in the following sequence:

AM ∞ FM ∞ CD ∞ MP3 ∞ CD Changer ∞ DVD ∞ VTR ∞ SIRIUS

↑

## How to play the tuner

Select the tuner mode first.

### Selecting a station (manually or automatically)

A short press of the button will allow manual station tuning.

**1** Press **v TUNE · SEEK ^**.

- ^ button**:  
Tunes to higher frequency stations.
- v button**:  
Tunes to lower frequency stations.

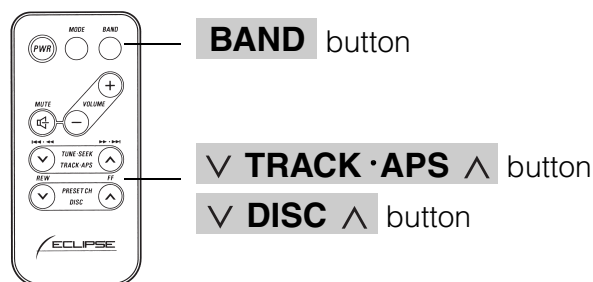
## Selecting preset stations

A total of six stations may be selected (preset tuning) out of those already set in memory through the main unit. (Refer to "Saving radio stations" on page 40.)

**1** Press **∇ PRESET CH ▲**.

- **▲** button:  
Select the next higher number preset button.
- **∇** button:  
Select the next lower number preset button.

# How to use an optional remote control (1602)



## How to play CDs

Select the CD mode first.

### Switching disc modes

**1** Press **BAND**.

When one or two CD changers are connected, press **BAND** to change modes from CD player → CD changer 1 → CD changer 2.

The indicator will skip a changer or player that has no discs loaded.

### Advancing to the next track or returning to the beginning of the track being played

**1** Press **TRACK · APS**.

- **^** button : Skips to the next track.
- **V** button : Returns to the beginning of the track being played. (Press repeatedly to move to previous tracks.)



Hold **^** down to fast forward, or **V** to rewind through the track being played.

### Skipping to the next or previous disc

**1** Press **DISC**.

- **^** button : Selects the next higher number disc.
- **V** button : Selects the next lower number disc.

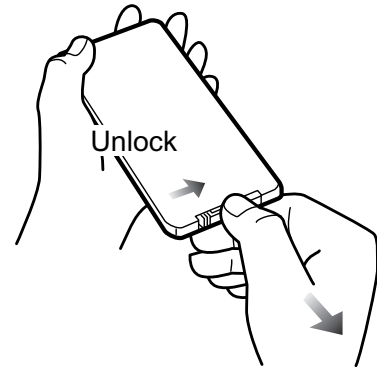
## Replacing the battery



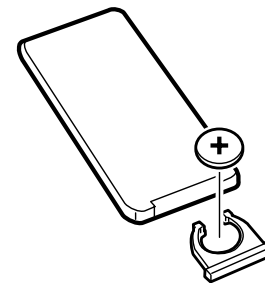
To prevent accidents, store batteries out of the reach of children. If a child has swallowed one, consult a doctor immediately.

Use one CR2025 battery.

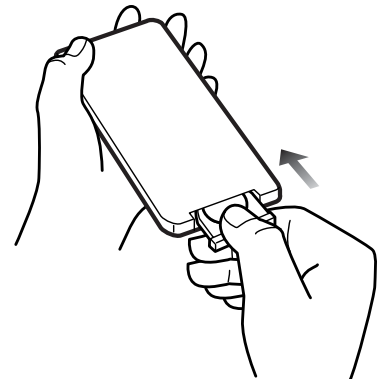
- 1** On the back of the remote control, while pressing the locking knob on the battery slot cover toward your right, pull out the battery carrier with your fingernail.



- 2** Remove the old battery, then place the new one in the carrier with the **+** mark facing up.



- 3** Push in the carrier until it snaps into place.



Be sure to orient the batteries correctly so that the positive and negative poles match the diagram.



If any liquid is seen leaking from the battery, remove the battery and dispose of it properly. Thoroughly clean the battery compartment with a dry cloth. Then install new battery.

## ***How to use an optional remote control (RMC105)***



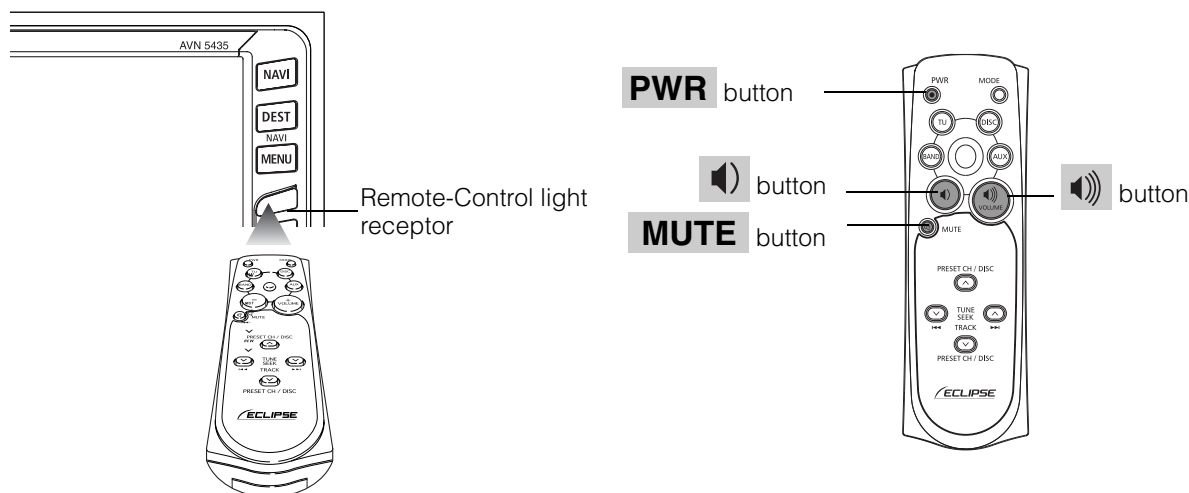
Caution

### **Precautions in use of the remote control**

- Be careful when handling the remote control, especially because it is small and light. Dropping or striking it hard may damage it, wear out the battery or cause a malfunction.
- Keep the remote control free of moisture, dust and water. Do not subject it to shock.
- Do not place the remote control unit where it will get hot, such as on the dashboard or near a heater vent. Allowing the remote control unit to overheat may warp its case or cause other problems.
- Do not operate the remote control unit while driving because doing so could cause an accident.
- When using the remote control, point it directly at the remote control light receptor.
- The light receptor may not operate correctly if it is exposed to bright light such as direct sunlight.
- Be sure to press [PWR] on the main unit for more than two seconds to shut it down before leaving the car, or the car battery may be run down. When the main unit is shut down, the remote control will not work.
- Remove the batteries from the remote control unit whenever it is not to be used for a long time.

### **Cleaning the remote control**

- Use a dry cloth to keep the unit clean. If the remote control unit gets extremely dirty, clean it with a cloth moistened in diluted liquid detergent. Do not use alcohol or thinner; these compounds may damage the finish.
- In no event should benzine or thinner be used. These substances will damage the case or finish.



## Turning the power on/off

When the power is turned on, the state used when the power was turned off such as CD and tuner playing is restored.

**1** Press **PWR**.



- The power turns on or off each time the button is pressed.



When the main unit is shut down, the remote control will not work.

## Adjusting the audio volume

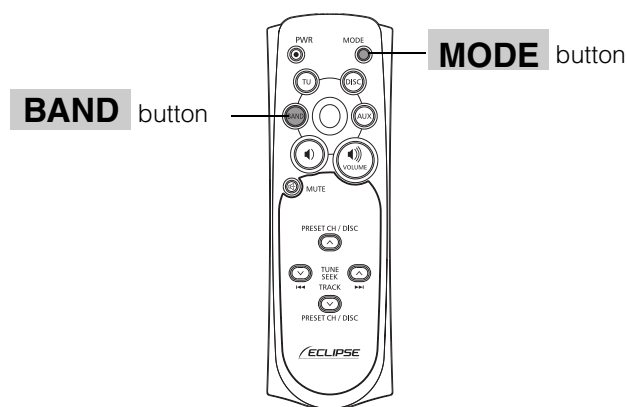
**1** Press  or .

-  button: Increases the volume.
-  button: Decreases the volume.

### Muting the Volume

Press **MUTE** to cut the volume or restore it instantly.

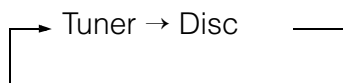
# How to use an optional remote control (RMC105)



## Switching playback modes

**1** Press **MODE**.

- Press the button to switch modes in the following sequence:



## How to play the tuner

Select the tuner mode first.

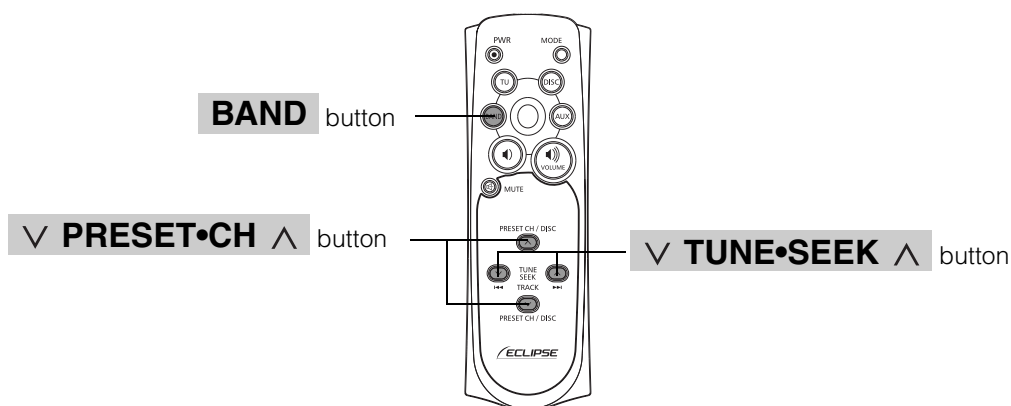
### Selecting the AM/FM band

**1** Press **BAND**.

Each press will switch tuner modes from FM1 → FM2 → FM3 → AM.



- It is not possible to switch between AM/FM modes and SIRIUS with the remote control.
- If the optional SIRIUS tuner is connected, the selections will switch the modes from SR1 → SR2 → SR3 → SR4 in order.



## Selecting a station (manually or automatically)

A short press of the button will allow manual station tuning. Pressing for more than one second will start automatic tuning.

**1** Press **PRESET•CH**.

- **▲** button: Tunes to higher frequency stations.
- **▼** button: Tunes to lower frequency stations.

## Selecting preset stations

A total of six stations may be selected (preset tuning) out of those already set in memory through the main unit. (Refer to the Section "Saving radio stations" on page 40)

**1** Press **PRESET•CH**.

- **▲** button: Select the next higher number preset button.
- **▼** button: Select the next lower number preset button.

## How to play CDs

- Select the CD mode first.

## Switching disc modes

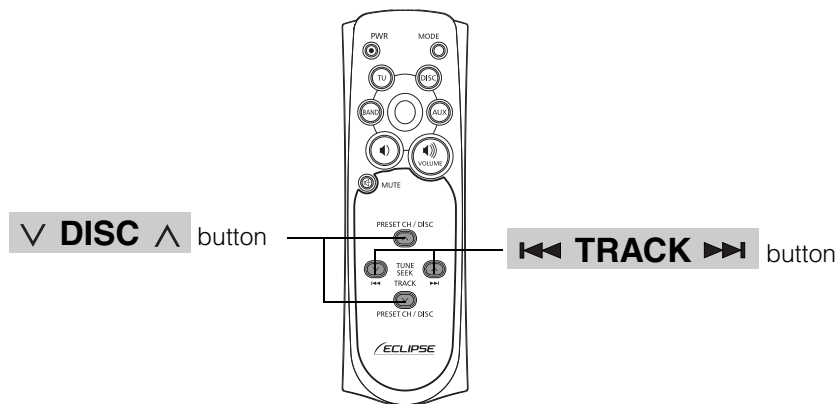
**1** Press **BAND**.

When one or two CD changers are connected, press **BAND** to change modes from CD player → CD changer 1 → CD changer 2.

The indicator will skip a changer or player that has no discs loaded.



# How to use an optional remote control (RMC105)



## Advancing to the next track or returning to the beginning of the track being played

**1** Press **◀◀ TRACK ▶▶**.

- **▶▶** button: Skips to the next track.
- **◀◀** button: Returns to the beginning of the track being played. (Press repeatedly to move to previous tracks.)



Hold **▶▶** down to fast forward, or **◀◀** to rewind through the track being played.

## Skipping to the next or previous disc

**1** Press **▽ DISC ▲**.

- **▲** button: Selects the next higher number disc.
- **▽** button: Selects the next lower number disc.

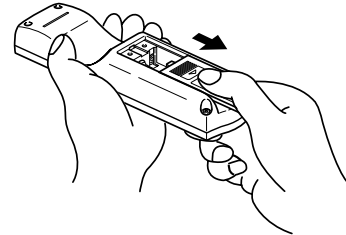
## Replacing the battery



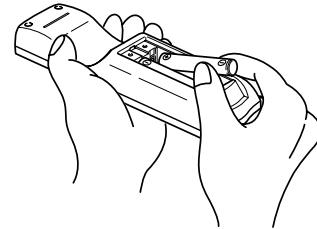
To prevent accidents, store batteries out of the reach of children. If a child has swallowed one, consult a doctor immediately.

Use two AAA-size batteries.

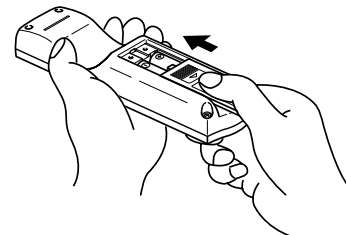
- 1** Remove the back cover of the remote control unit by gently pressing and sliding it in the direction indicated by the arrow.



- 2** Install the two batteries provided into the compartment as illustrated.



- 3** Return the back cover into place by sliding it in the direction indicated by the arrow.



- The battery life is approximately one year. If the remote control unit does not operate correctly or if the button lamp gets dim, replace the batteries.
- Be sure to orient the batteries correctly so that the positive and negative poles match the diagram.
- Do not use one new battery and one old one; use two new batteries.
- Use only two of the same kind of battery.
- If any liquid is seen leaking from the batteries, remove both batteries and dispose of them properly. Thoroughly clean the battery compartment with a dry cloth. Then install new batteries.

# Information you should know

## If one of these messages appears

If any of the following messages are displayed, check the unit while referring to the Cause and Remedy columns.

Messages	Cause	Corrective action
CD SEEK	The CD changer is searching for discs when a magazine has been set in the CD changer.	Wait until the unit has finished identifying the type of disc.
CD DOOR OPEN	The door of the CD changer is open.	Close the door of the CD changer.
CHECK DISC	The CD/MP3/DVD is dirty or is upside down.	Clean the disc if it is dirty. Insert the disc correctly if it is upside-down.
NO DISC NO CD	There is no disc in the CD/MP3/DVD player or CD changer.	Load a music disc.
CD ERROR DVD ERROR DISC ERROR	The CD/MP3/DVD player or CD changer will not move for some reason.	Eject the disc.
CD ERROR DVD ERROR DISC ERROR	The temperature of the CD/MP3/DVD player or CD changer has become unusually high.	Without performing any other operations, wait until the temperature comes down.
NO CD MAGAZINE	There is no magazine in the CD changer.	Load a magazine.
CD XX CHECK	The XXth CD in the CD changer cannot be read.	Check for a properly loaded music CD.
PASS CODE INCORRECT	This message is displayed when the pass code that has been entered is not correct.	Enter the correct pass code.
PARENTAL LOCK ENABLED	Viewing restrictions are enabled.	Change the setting for viewing restrictions and start again. (Refer to page 87.)
CURRENTLY THIS FUNCTION IS DISABLED	A function that has been disabled was selected with the menu.	Follow the directions on the screen and start again.
CURRENTLY THIS FUNCTION IS DISABLED	A function that cannot be used while the vehicle is in motion was selected.	Stop the vehicle.
INVALID CODE	A number not supported was input for selecting a language code.	Input a valid language code.
REGION CODE ERROR	The region code (controlled region for playback) of the disc isn't acceptable.	Check that the DVD has a region code that can be played on this deck. (Refer to page 17.)
REQUESTED CHAPTER OR TITLE NOT FOUND	The selected chapter/title does not exist.	Select a chapter/title that is on the disc.

Messages	Cause	Corrective action
ANTENNA	The SIRIUS antenna is disconnected.	Check the connection of the SIRIUS antenna.
ACQUIRING	Displayed when the signal is lost (during access)	Try receiving the signal again in the place where there are no obstacles.
CALL888-539-SIRIUS	You are tuned to a valid channel but you are not subscribed to that channel.	Subscribe SIRIUS. Or, check/change your subscription plan.
SUB UPDATED	Displayed when your channel subscription has been accepted and your status is being updated to allow you to receive the channels	After this message is displayed, the channels for which you do have a subscription can be received.
INVALID	Displayed when you are tuned to a channel that you cannot receive	Tune to channels that you can receive.
UPDATING	Displayed while the channel map is being updated	After this message is displayed, subscribe SIRIUS. The channels for which you do have a subscription can be received.

- 1: If the DVD player still will not work after the disc is ejected, contact the place of purchase.
- 2: If this happens, wait for a while. When the temperature inside the unit returns to normal, the message will disappear and playback will start. If the message does not disappear after a long period of waiting, contact the place of purchase.

# Information you should know

## Before asking for repairs

Slight differences in operation can sometimes be mistaken for malfunctions, so check the following table before asking for any repairs.

If the following fail to solve the problem, contact the place of purchase.

Problem	Possible reason	Corrective action
The screen is dark for a brief period when the power is turned on at low temperatures.	This is a characteristic of LCDs.	This is not a malfunction. Wait for a brief period.
The display is distorted for a brief period after the power is turned on.	This is a characteristic of LCD backlighting.	This is not a malfunction. The display will stabilize after a brief period.
No sound comes out.	Volume is poorly adjusted or MUTE is functioning.	Press the volume switch and check volume. Or cancel MUTE.
Sound comes out of only one side (left or right, front or back).	A speaker cord is disconnected.	Check the connections of the speaker cords.
	Volume is poorly adjusted.	Check the left/right volume adjustments.
Sound quality does not change even after making adjustments.	The adjusted audio quality is not included in the radio broadcast or disc.	Check by changing the radio station or disc.
A CD/DVD will not go into the deck.	Power is not turned on.	Turn the vehicle ignition switch to [ACC] or [ON].
	A disc is already inserted and you are trying to insert a second disc.	Eject the previously inserted CD/DVD and insert the preferred CD/DVD.
A CD/DVD cannot be played.	There is water condensation in the deck.	Do not use the deck for a while and then try using it again. (Refer to pages 17 and 18.)
	There is a large scratch or warp in the CD/DVD.	Insert a different CD/DVD.
	The CD/DVD is very dirty.	Clean the CD/DVD. (Refer to page 18.)
	The CD/DVD is upside down.	Insert the CD/DVD with the proper orientation. (Refer to page 18.)
	A non-supported type of CD/DVD has been inserted.	Insert a CD/DVD that is supported by the deck. (Refer to pages 17 and 18.)
A <b>CD<sub>CH1</sub></b> / <b>CD<sub>CH2</sub></b> is not displayed on the screen.	The CD changer is not completely connected.	Check the connections to the CD changer.
Audio is output, but not video.	The screen has been turned off with the screen OFF button.	Press <b>CONT</b> or <b>NAVI</b> . (Refer to page 34.)
Audio is output, but not DVD video. (With vehicle stopped.)	The parking brake has not be set.	Set the parking brake.
Neither video nor audio is output.	The vehicle ignition switch has not been turned on.	Turn the vehicle ignition switch to [ACC] or [ON].
	The connection cord is not completely connected.	Check the connections to each connection cord.
There is a point of light on the display.	At least 99.99% of the pixels on the LCD panel are effective, but it is possible that 0.01% of the pixels may not light or may stay lighted.	This is not a defect, so please use the deck in this condition.

# Others

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## Products equipped with Dolby Digital

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## Products equipped with Macrovision

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# Glossary

<b>CD-R</b> (Compact Disc Recordable)	This is a disc that can only be recorded once. Recorded data cannot be deleted. There are two types of CD-R, one having capacity of 650MB (74 minutes of music), the same as a regular CD, and the other having capacity of 700MB (80 minutes of music).
<b>CD-DA</b> (Compact Disc Digital Audio)	This disc is the standard for recording and playing of music data. One track is recorded with one song, and a maximum of 74 minutes can be used with the CD.
<b>CD-RW</b> (Compact Disc ReWritable)	This disc uses a phase transformation method that enables recording and deleting of data as many times needed. Capacity is 700MB (80 minutes of music).
<b>EQ (Equalizer)</b>	This enables setting of stronger or softer playing of sounds throughout the high to low range of the sound. Levels can be adjusted to personal preference, enhancing enjoyment of the music.
<b>MP3</b> (MPEG-1 Audio Layer-3)	"MP3" is the abbreviation for "MPEG Audio Layer 3," which is the standard format for compression of audio data. MP3 technology compresses sound in the range inaudible to the human ear, producing a file one tenth the size of the original.
<b>LPCM</b> (Linear PCM)	This is an abbreviation for Linear Pulse Code Modulation, a signal recording method used with music CDs. A music CD is recorded at 44.1kHz/16 bit, but a DVD is recorded at 48kHz/16 bit ~ 96kHz/24 bit, enabling a DVD to be played with higher sound quality than a music CD.
<b>MPEG</b>	This is an abbreviation for Moving Picture Experts Group and is pronounced "empeg". It is the international standard for moving image compression. With DVDs, this method is also used to compress and record digital audio.
<b>Copy Control CD</b>	This is a CD that has controls for preventing computers from copying and ripping (taking audio information recorded on a compact disc and using it as data to create a file).
<b>UDF</b> (Universal Disc Format)	This is one format for use with optical discs not reliant on the OS. It is used with media such as DVD and CD-RW.
<b>Track</b>	The single division for a song on a music CD is called a track.

<b>Viewing Restriction</b>	This is a DVD video function that "Restricts playing of discs that support viewing restrictions, in accordance with the regulated levels of each country." Restrictions differ by DVD video and may completely prevent playing of the video or may skip or insert alternate scenes for extreme scenes.
<b>Title</b>	This is the largest unit for divisions of video or songs recorded on a DVD video. Usually a single movie is treated as a title by video software and a single album (or song) is treated as a single title by music software. The consecutive numbers attached to titles are called title numbers.
<b>Chapter</b>	This is a unit for divisions of video or songs recorded on a DVD video, but it is a smaller unit than a title. A single title is made up of several chapters, and the consecutive numbers attached to chapters are called chapter numbers.
<b>Multi-Angle</b>	This is one feature of DVD video, where viewpoints of the same scene are changed by recording from several different angles (camera positions), allowing the viewer to select the preferred angle.
<b>Multi-Language</b>	This is one feature of DVD video, where the same scene is recorded with several different languages and subtitles, allowing the viewer to select the preferred language.
<b>Region Code</b>	DVD players and DVD discs have a region code that enables playing by geographic marketing regions, and a disc cannot be played if the number recorded on the disc is not included in the region codes of the player. Refer to page 68 for details on region codes.



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## About screen and sound adjustment

### [Regarding screen adjustment]

To make the audio operation screen or VTR screen easier to see

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To turn off the screen

**"Turning off the screen"** ..... P34

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To set the screen to wide mode

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### [Regarding audio adjustment]

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To turn on/off the guide tone used at switch operation

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- To change the acoustic environment of a performance

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To search for a radio station

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To save radio stations

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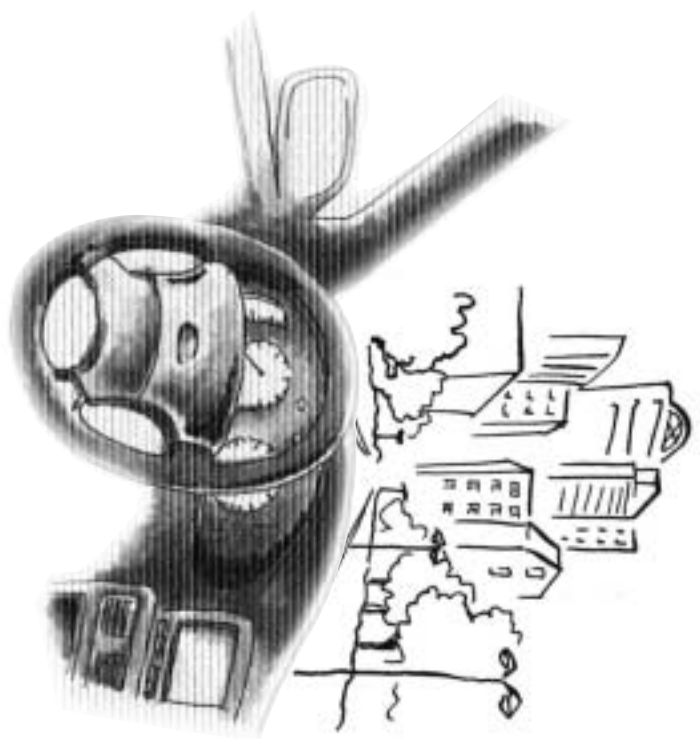
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MEMO

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*MEMO*



This device complies with part 15  
of the FCC Rules. Operation is subject  
to the condition that this device  
does not cause harmful interference.

#### CUSTOMER NOTICE

Please retain this booklet and write in the serial number of your AVN5435 for identification.  
The serial number is labeled or stamped on the chassis.

Serial No. \_\_\_\_\_

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